

SYMBIA INTEVO | BUILD YOUR BUSINESS

Grow your audience

With a more diverse range of offerings, you can provide a higher quality of care to more patients.

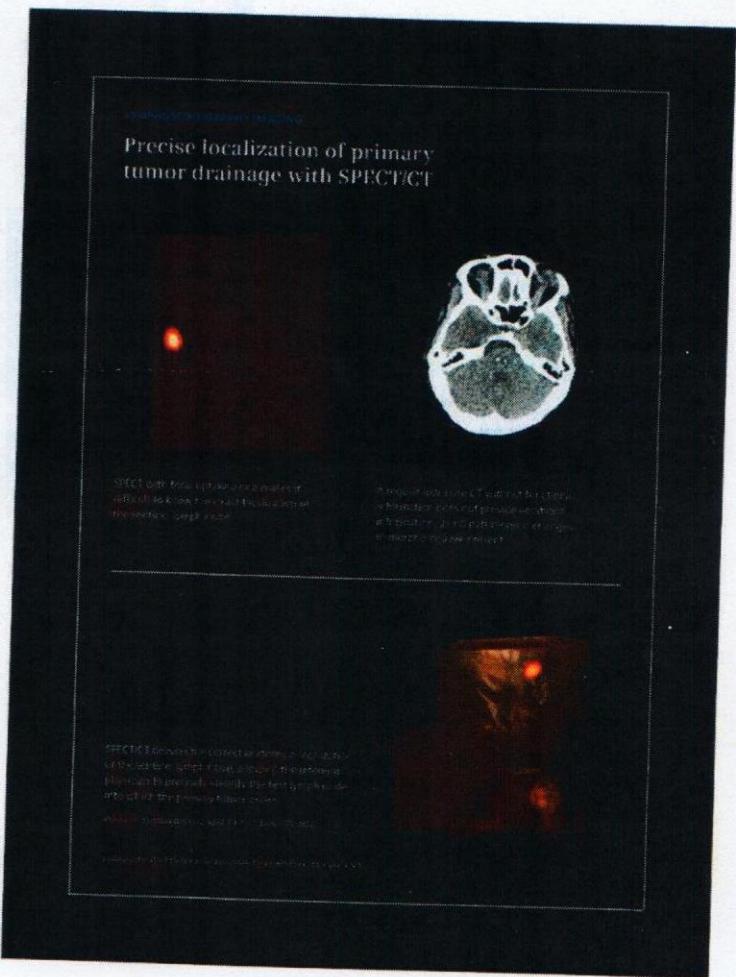
"Referring doctors expect us to make precise interpretations. Virtually from day one [with Symbia Intevo], we've had a high volume of patients. We accomplished this without any advertising. We simply offer good medicine."

Peter Peloschek, MD
Radiology Specialist
Radiology Center, Vienna, Austria

Look to boost your revenue by offering new clinical indications

The benefits of expanding your range of clinical exams can be far-reaching. Consider, for example, the impact of adding even one parathyroid or cardiac study to your daily exam schedule.

\$500 \times **5** \times **52** = **\$125K**



Precise localization of primary tumor drainage with SPECT/CT

SPECT with tracer uptake in a patient with known breast cancer metastases. The tracer concentration is highest at the site of the primary tumor.

SPECT/CT fusion image showing the same patient with the SPECT tracer uptake superimposed onto the CT scan. The location of the primary tumor can be clearly identified.

SPECT/CT fusion image showing the same patient with the SPECT tracer uptake superimposed onto the CT scan. The location of the primary tumor can be clearly identified.

SYMBIA INTEVO

It's time to discover
how the advanced
SPECT/CT technologies
of Symbia Intevo
can help position you
for the future.



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¹ Symbia Intevo is not commercially available in all countries. Due to regulatory reasons, its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

² siemens.com/imaginglife

³ The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption), there can be no guarantee that other customers will achieve the same results.

⁴ IMV 2015, Nuclear Medicine Outlook Report, April 2015.

⁵ Based on European camera market:
<http://www.auntminnieeurope.com/index.aspx?sec=ser&sub=def&pag=dis&ItemID=606759>

⁶ The Lancet, Trends in adult body mass index in 200 countries from 1975 to 2014, Volume 387, 2 April 2016. OR: [http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(16\)30054-X/abstract](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(16)30054-X/abstract)

⁷ Based on competitive literature available at time of publication. Data on file.

⁸ Zhao, Z, et al. (2010). Single photon emission computed tomography/spiral computed tomography fusion imaging for the diagnosis of bone metastasis in patients with known cancer. *Skeletal Radiology*, 39(2), 147–153.

⁹ Serra, A, et al. (2006). Role of SPECT/CT in the preoperative assessment of hyperparathyroid patients. *Là Radiologia Medica*, 111(7), 999–1008.

¹⁰ Corbett, JR et al. (2008). Diagnostic Accuracy Of Hybrid Cardiac SPECT/CT For Attenuation Correction Of Stress Myocardial Perfusion Imaging In Obese Compared To Normal Weight Patients. *Journal of Nuclear Cardiology*, 15(4), S15–21.

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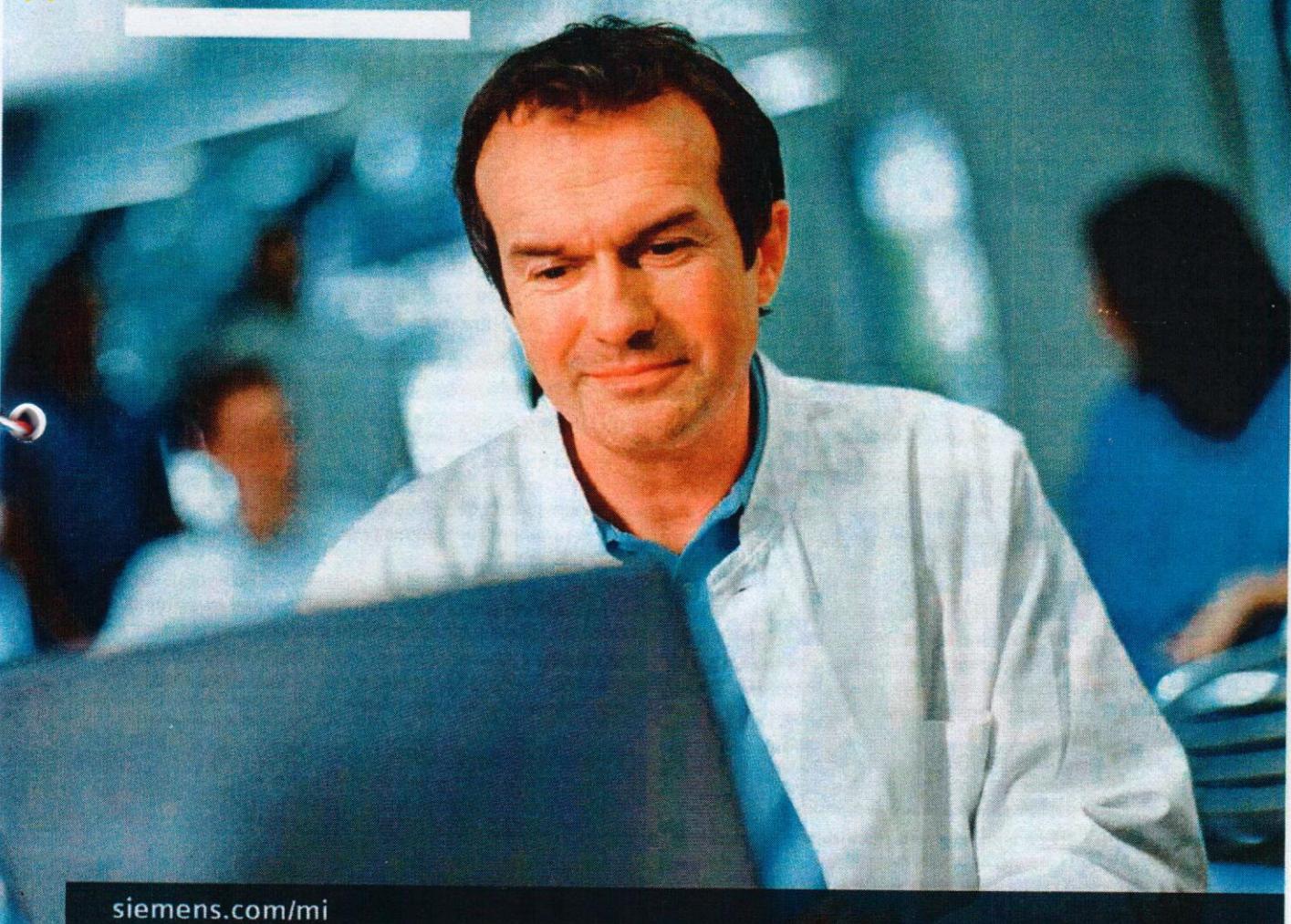
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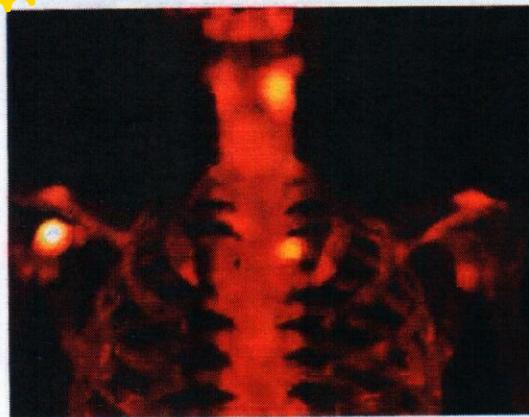


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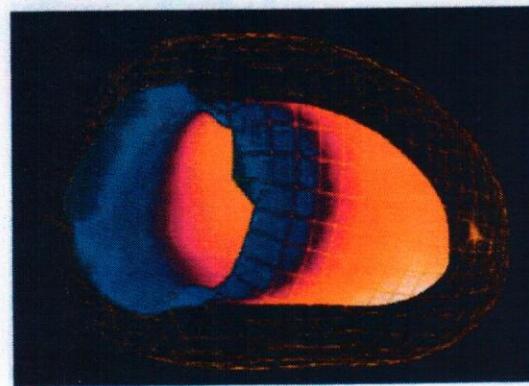
Symbia.net

Clinical Workflow Server

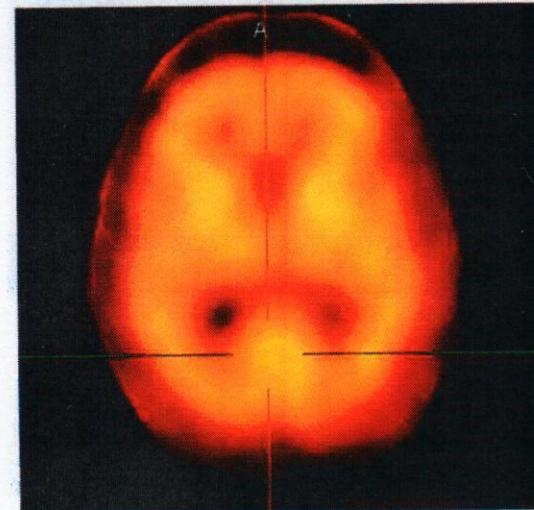
The Symbia.net Clinical Workflow Server is a powerful, integrated system designed to support the clinical workflow. It provides a central hub for managing patient data, clinical documents, and operational processes. The system is designed to be flexible and scalable, allowing for customization to meet the specific needs of individual facilities. It offers a range of features, including automated workflows, clinical decision support, and secure data exchange. The Symbia.net Clinical Workflow Server is a key component of the Siemens HealthCare portfolio, providing a comprehensive solution for healthcare organizations.



Cancer: standard uptake value analysis
Data courtesy of University of Minnesota,
Minneapolis, Minnesota, USA



Coronary artery disease: myocardial perfusion analysis
Data courtesy of University of Michigan,
Ann Arbor, Michigan, USA



Epilepsy: brain analysis
Data courtesy of Friedrich Alexander University Erlangen,
Nuremberg, Germany

Symbia.net Clinical Workflow Server

The Symbia.net platform offers maximum flexibility and investment protection. Whether Symbia.net is configured as a standalone workplace for one user or as a server for multiple concurrent users, the same fully scalable system is easy to integrate and use from the start and upgradeable to meet your future needs.

Information Access Made Easy

Symbia.net™ is an economical client-server solution for anywhere,* anytime processing and reading of molecular imaging studies.

The system supports SPECT, SPECT/CT and PET/CT, as well as quantitative measurement for systems featuring xSPECT technology, such as Symbia Intevo™.**

The Symbia.net platform offers maximum flexibility and investment protection. Whether Symbia.net is configured as a standalone workplace for one user or as a server for multiple concurrent users, the same fully scalable system is easy to integrate and use from the start and upgradeable to meet your future needs.

The Symbia.net server provides access from any compatible Mac or PC, anywhere.* With the free Symbia.net app for iPad*** from the Apple App Store™ and Microsoft® Surface support, users can further leverage their investment to fully access all their tools, applications and clinical cases from mobile devices. This allows you to more easily cover scenarios such as:

- Case and image discussions with patients
- Case and results discussions in tumor board meetings
- Second opinions, even from remote locations

* Requires network connection and minimum hardware requirements. Server management with at least 1 client required for iPad access.

** xSPECT technology reconstructs both the SPECT and CT portions of the image using the high-resolution CT frame of reference for precise, accurate alignment that facilitates the extraction and deep integration of medically relevant information. Symbia Intevo and xSPECT are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

*** Symbia.net for iPad is for non-diagnostic use.



Key Benefits

Symbia.net is the only client-server solution that provides full processing and reading capabilities for molecular imaging data. Symbia.net is configurable with Siemens standard nuclear medicine and advanced clinical applications for oncology, cardiology and neurology, as well as common cardiac packages, including Corridor 4DM and Cedars.

EASY to install and operate on PC, Mac, iPad or Windows Surface Pro. The familiar and highly customizable user interface enables a virtually instant transition for Symbia™ users.

ECONOMICAL to maintain and expand with the option to install an unlimited number of computers at no additional cost, allowing up to ten concurrent users per server. User and application licenses may be added anytime.

ACCESS to anywhere,* anytime full image reconstruction and reading tools, including the standard cardiac packages and advanced engines.

With Symbia.net, you can leverage your existing Siemens imaging equipment and IT infrastructure, reduce manual interaction, synchronize information and knowledge exchange, and improve your facility's workflow productivity.

Your Return on Innovation

- Potentially increase speed of clinical decisions by processing and reading images anytime from anywhere
- Improve reading confidence through accurate and reproducible quantification of Symbia Intevo xSPECT studies
- Reduce time for image processing through integration of data acquisition and data processing workflows
- Save time for communication with colleagues and patients by displaying images on Apple iPad* and Microsoft Surface Pro
- Potentially increase revenue from physician referrals through faster report turnaround
- Save resources and scale effectively based on needs using existing hardware

NOTE: xSPECT reconstruction cannot be performed on Symbia.net.
* Requires network connection and minimum hardware requirements.



Technical Specifications

Number of Concurrent Users

Number of concurrent users is scalable with multiple servers. Up to 10 concurrent users per system; 1 at the server with up to 9 floating clients.

Server	HP Z820
Processors	2x Intel Xeon E5-2637, 3.5 GHz, 4 cores
Memory	16GB DDR3, 1,866 MHz
Graphics	NVIDIA Quadro K 600 1GB GFX
Hard drive	2x 300GB, 10,000 RPM SAS

Client Requirements

Operating systems	Windows 8, 7, Vista, XP, Apple Mac OS X
Memory	1 GB minimum, 2 GB recommended
Hard drive	1 GB free HD space minimum
Display resolution	Flexible from 1280 x 768 to full HD to 2560 x 1440 (27" Mac)
Graphics	24-bit color depth compatible
Processor speed	2.0 GHz or higher recommended

Mobile Devices

iPad 2 or later on iOS 5 or later
Microsoft Surface Pro

Supported Image Types and Scanners

SPECT/CT and SPECT	Symbia Intevo Symbia Intevo Excel* Symbia Evo™* Symbia Evo Excel Symbia T Series Symbia S Symbia E c.cam e.cam
PET/CT	Biograph mCT Flow™ Edge Biograph mCT Flow Biograph™ mCT Biograph Horizon™ Biograph mCT 20 Excel Biograph TruePoint

Connectivity

Minimum: 54 Mbps; Recommended: 100 Mbps or higher (wired or wireless)

Installation

Install and update Symbia.net by connecting to the server and launching an installation/update application

* Symbia Intevo Excel, Symbia Evo and Symbia Evo Excel are not available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

Symbia.net is also compatible with competitive data that conforms to Siemens DICOM standards.



Technical Specifications

Service and Upgrade Capabilities

Siemens remote service capabilities allow for fast and efficient maintenance and system updating. Remote diagnostic functionality permits remote login and the ability to receive updates electronically. Administration is centralized on one server, database and workflow library.

Configuration and Expansion Options

Symbia.net offers licenses for up to 10 concurrent users; 1 at the server with up to 9 floating clients. The client application can be installed on an unlimited number of computers, meeting minimal requirements, with simultaneous access for up to 10 concurrent users at any given time.

Supported User Interface Languages

English, Spanish, French, German, Chinese, Japanese

Clinical Applications

Compatible with Siemens standard and advanced molecular imaging engines and is configurable with third-party cardiac packages:

Oncology	Volumetric analysis and advanced fusion
Cardiology	Calcium scoring, cedars, corridor 4DM
Neurology	Scenium SPECT, Scenium DatScan, Scenium Subtraction, Scenium PET
Nuclear studies	Organ processing: cardiac, lung, thyroid, renal, gastric, hepatobiliary, brain, liver



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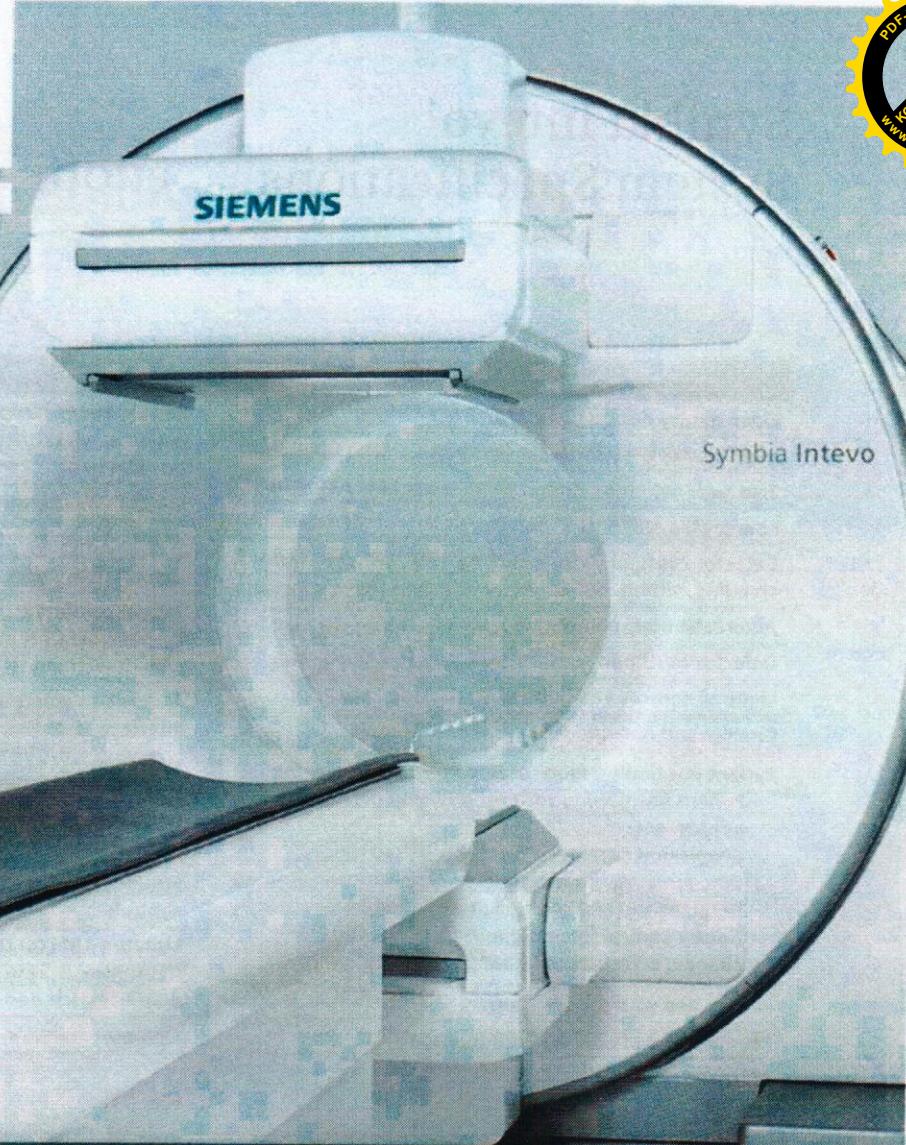
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Symbia Intevo

System Specifications



Symbia Intevo¹

System Specifications

System Hardware (Standard)

Open gantry design (70 cm/27.6 in)	Patient bed pivot for rail-free access of sitting/standing patients, wheelchairs, imaging tables, gurneys and hospital beds
Multislice UFC™ (Ultra Fast Ceramic) CT detector	Integrated calibration source holder
Two high-definition digital SPECT detectors	Rear bed with pallet flex prevention
Low-profile 3/8" or 5/8" detectors	Carbon fiber pallet
Detector configuration, including 180°, 90°, 76°, gurney, standing, sitting, out-facing	Patient comfort accessories (SPECT head holder and cushion, SPECT armrest, whole-body armrest, set of patient restraint straps, set of body wraps)
Automatic body contouring	Acquisition workplace with multilingual graphical user interface, monitor, keyboard and mouse plus full DICOM archiving, CD/DVD storage, external USB 2.0 disk support and printing functionality
Detector touchpad sensors	Dedicated reconstruction system with 64-bit architecture
Lightrail sensors and lightrail touchpads	Intuitive hand controller with easy-to-use descriptive controls
Circular and non-circular body-contour orbit	Monitor, 19" LCD DICOM (standard monitor, 19"/48 cm flat screen, 1,280x1,024 resolution, 1,024x1,024 image display matrix and 0,29 mm pixel size)
Patient positioning monitor (PPM)	Operator manuals
– Patient positioning with window and persistence adjustment	
– Acquisition parameter display (elapsed time, time remaining, view number, count rate)	
– Detector and bed position information	
– Gantry control (reconfiguration, collimator change, offset zoom CT range planning	
Patient bed with rail-free gurney and wheelchair access	
Patient bed with 227 kg (500 lb) capability	

System Hardware (Optional)

Caudal tilt	AutoQC source kit
Low-energy, high-resolution collimator	NIST-traceable precision calibration source (Co57 and/or Se75)
Low-energy, all-purpose collimator	Internal ECG for Symbia™ scanners
Low-energy ultra-high-resolution collimator	ECG gate with strip chart recorder
Medium-energy collimator	Patient handling system (PHS) extended pivot
Low-penetration, high-resolution collimator	Extra hand controller
Fan beam collimator	Dual monitor
High-energy collimator	e.Media for PPM
Pinhole collimator (4, 6 or 8 mm aperture)	Radiation therapy pallet
IQ•SPECT with SMARTZOOM collimator	Mammography pallet
IQ•SPECT armrest	Pediatric pallet
Integrated Collimator Changer (ICC)	Under- or over-floor PHS cable
Automatic Collimator Changer (ACC)	Seismic installation kit
Collimator cart	
Automatic Quality Control (AQC)	



System Specifications

System Software (Standard)

xSPECT™ ¹ reconstruction with CT frame-of-reference	Automatic and manual motion correction
3D measured point spread function for xSPECT	Topogram, spiral, sequential acquisition modes
Multimodality viewing software	Extended field of view (FoV)
Planar (static) acquisition	CARE Dose4D™
Dynamic acquisition	SureView™
Whole-body acquisition	Flexible kV (80, 110, 130 kV)
Whole-body SPECT acquisition	DICOM structured dose report
Gated acquisition	syngo® archiving and network
Gated SPECT acquisition	Asynchronous reconstruction
Dynamic SPECT acquisition	Image display
Filtered back projection	Multiplanar reconstruction
Flash 3D iterative reconstruction	Video capture and editing tool
Scatter correction	CT scan protocol assistant
CT attenuation correction	WorkStream4D™ (direct 3D-reconstruction) (Symbia Intevo 16 and Symbia Intevo 6 only)
Cardiac half-time imaging	syngo Dynamic Evaluation
Remote diagnostic services	syngo Viewing
PPM display and interaction at acquisition workplace	syngo Filming
Gated study beat normalization	

System Software (Optional)

xSPECT Bone™ ¹ with zone map (tissue classification)	Cedars Cardiology Engine
xSPECT Quant™ ¹ ^{99m} Tc	Neurology Engine
xSPECT Quant ¹⁷⁷ Lu ²	Scenium
xSPECT Quant ¹²³ I	syngo media viewer
xSPECT Quant ¹¹¹ In	FAST 3D Align (Symbia Intevo 16 and Symbia Intevo 6 only)
Broad Quantification™ ¹	FAST kV (Symbia Intevo 16 and Symbia Intevo 6 only)
Dose calibrator cross-calibration capability for unbiased SUV quantification	IRIS (Symbia Intevo 16 and Symbia Intevo 6 only)
TrueCalc™ ¹ high count rate detector technology	Heartview CT
3D measured collimator characterization for IQ•SPECT (hole, shape and size)	syngo Calcium Scoring
Organ Processing for Symbia	syngo CARE Bolus
Planar half-time imaging	syngo Perfusion CT
syngo MI Remote Scanner Status	syngo Pulmo CT
syngo Security Package	Advanced 3D features
Corridor4DM	syngo Fly Through for Symbia
	Multi-series CT attenuation correction



SPECT Specifications

Gantry Dimensions

Height	225 cm (7 ft 4.7 in)
Width	231 cm (7 ft 7 in)
Depth	203 cm (6 ft 8 in)
Axis of rotation (from floor)	104 cm (3 ft 5 in)
Weight ³	3,506 kg (7,714 lb)
Min./max. patient opening (HE coll)	12 cm (4.7 in)/65.4 cm (25.7 in)
Min./max. patient opening (LEHR coll)	19.2 cm (7.6 in)/72.6 cm (28.6 in)
Patient positioning monitor	15" flat panel color LCD display
Tunnel opening	70 cm aperture (27.6 in)
Tunnel length	89 cm (35 in)
Distance between SPECT and CT field of view (FOV)	136 cm (53.3 in)

SPECT Acquisition

Energy range (photopeak window center)	35-588 keV
Acquisition modes	Static, dynamic, gated, SPECT, gated SPECT, dynamic SPECT, whole-body, whole-body SPECT, SPECT/CT, xSPECT

Nuclear Medicine and SPECT Acquisition Parameters

	Static
Time	50-32000000 ms
Counts	1-2147483647
Zoom	1.00, 1.23, 1.45, 1.78, 2.00, 2.29, 2.67, 3.20
Matrix	64x64, 128x128, 256x256, 512x512, 1024x1024
Body position	Supine, prone
Orientation	Head-in, head-out, gurnee-right, gurnee-left, head-left, head-right, sitting, standing, open-right, open-left
Detectors	Detector 1, detector 2, both
Detector configuration	180°, 90°, 76°, out-facing
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, ME, HE, pinhole



SPECT Specifications

Nuclear Medicine and SPECT Acquisition Parameters	
Time	Dynamic 50-32000000 ms
Number of frames	1-2,048 frames
Zoom	1.00, 1.23, 1.45, 1.78, 2.00, 2.29, 2.67, 3.20
Matrix	64x64, 128x128, 256x256
Number of phases	1-32 phases
Body position	Supine, prone
Orientation	Head-in, head-out, gurnee-right, gurnee-left, head-left, head-right, sitting, standing, open-right, open-left
Detectors	Detector 1, detector 2, both
Detector configuration	180°, 90°, 76°, out-facing
Acquire with R-wave gate	Selectable
Acquire with statics	Selectable
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, ME, HE, pinhole
Gated	
Time	1-32000000 ms
Counts	1-15000000 cts
Zoom	1.00, 1.23, 1.45, 1.78, 2.00, 2.29, 2.67, 3.20
Matrix	64x64, 128x128
Number of frames	2-32 frames
Body position	Supine, prone
Orientation	Head-in, head-out, gurnee-right, gurnee-left, head-left, head-right, sitting, standing, open-right, open-left
Detectors	Detector 1, detector 2, both
Detector configuration	180°, 90°, 76°, out-facing
Heartbeats	1-100000 heartbeats
Heart beat framing	Forward, forward/backward by thirds
Beat window % width	0-200
Beat window center	256-2,000 ms/beat
Autocenter primary window	Selectable
Autotracking	Selectable
Reject PVC beats	Selectable
Beats to reject post PVC	0-6
PVC threshold (bpm)	1-99 beats
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, ME, HE, pinhole



SPECT Specifications

Nuclear Medicine and SPECT Acquisition Parameters	
Scan speed with autocontour	3-60 cm/min
Zoom	1.00
Matrix	256x512, 256x1024, 512x1024
Scan length	1-203 cm
Body position	Supine, prone
Orientation	Head out
Detectors	Detector 1, detector 2, both
Detector configuration	180°
Autocontour	Selectable
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, ME, HE
SPECT	
Time	500-32000000 ms
First view by counts	1-100000 kcts
Zoom	1.00, 1.23, 1.45, 1.78, 2.00, 2.29, 2.67, 3.20
Matrix	64x64, 128x128, 256x256
Maximum number of views	360 per head
Body position	Supine, prone
Orientation	Head-in (only 180°), head-out (all configurations)
Detectors	Detector 1, detector 2, both
Detector configuration	180°, 90°, 76°, IQ-SPECT
Orbit	Circular (180°, 90°), NCO (180°, 90°, 76°), NCO-prescan (90°, 76°), cardio-centric
Start angle	-179°-180°
Mode	Step and shoot, continuous, acquire during step
Degrees of rotation	90° (only 90°), 104° (only 76°), 180° (90° and 180°), 360° (90° and 180°)
Rotation direction	Clockwise, counterclockwise
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, LEFB, ME, HE, SMARTZOOM



SPECT Specifications

Nuclear Medicine and SPECT Acquisition Parameters	
Time/cycle	Dynamic SPECT 10-900 sec.
Cycles/repeat	1-10 cycles/repeat
Repeats/phase	1-80 repeats/phase
Number of phases	1-16 phases
Zoom	1.00, 1.23, 1.45, 1.78, 2.00, 2.29, 2.67, 3.20
Matrix	64x64, 128x128
Start angle	-179°-180°
Body position	Supine, prone
Detectors	Detector 1, detector 2, both
Orientation	Head-in (only 180°), head-out (all configurations)
Detector configuration	180°, 90°, 76°, IQ-SPECT
Orbit	Circular (180°, 90°), NCO (180°, 90°, 76°), NCO-prescan (90°, 76°), cardio-centric
Mode	Step and shoot, continuous
Rotation direction	Clockwise, counterclockwise
Degrees of rotation	90° (only 90°), 104° (only 76°), 180° (90° and 180°), 360° (90° and 180°)
Pause before phase	Selectable
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, LEFB, ME, HE, SMARTZOOM
Whole-body SPECT	
Time	500-32000000 ms
First view by counts	1-1000000 kcts
Zoom	1.00
Number of bed positions	2-5 bed positions
Matrix	64x64, 128x128, 256x256
Orientation	Head out
Body position	Supine, prone
Detectors	Detector 1, detector 2, both
Detector configuration	180°
Orbit	Circular (180°, 90°), NCO (180°, 90°, 76°)
Mode	Step and shoot, continuous, acquire during step
Rotational direction	Clockwise, counterclockwise
Degrees of rotation	180°, 360°
Start angle	-179°-180°
Allowable collimators ⁴	LEHR, LPHR, LEAP, LEUHR, ME, HE



SPECT Specifications

Nuclear Medicine and SPECT Acquisition Parameters		Gated SPECT
Time		500-32000000 ms
Accepted beats/view		1-99 beats/view
Zoom		1.00, 1.23, 1.45, 1.78, 2.00, 2.29, 2.67, 3.20
Matrix		64x64, 128x128
Number of frames		2-32 frames
Body position		Supine, prone
Orientation		Head out
Detectors		Detector 1, detector 2, both
Detector configuration		180°, 90°, 76°, IQ-SPECT
Orbit		Circular (180°, 90°), NCO (180°, 90°, 76°), NCO-prescan (90°, 76°), cardio-centric
Start angle		-179°-180°
Mode		Step and shoot
Degrees of rotation		90° (only 90°), 104° (only 76°), 180° (90° and 180°), 360° (90° and 180°)
Rotation direction		Clockwise, counterclockwise
Heart beat framing		Forward, forward/backward by thirds
Beat window % width		0-200
Beat window center		256-2,000 ms/beat
Autocenter primary window		Selectable
Autotracking		Selectable
Reject PVC beats		Selectable
Beats to reject post PVC		0-6
PVC threshold (bpm)		1-99 beats
Allowable collimators ⁴		LEHR, LPHR, LEAP, LEUHR, ME, HE, SMARTZOOM



SPECT Specifications

SPECT Motions

Average autocontour distance	1.1 cm (0.45 in)
Max. radial and lateral speed	72 cm/min (28.3 in/min)
Max. lateral position left/right	37.5 cm (14.7 in)/10 cm (4 in)
Max. clockwise/counter-clockwise rotation detector 1	405°/-135°
Ring rotation range	540°
Rotational uniformity	Yes
Rotational accuracy	0.1°
Rotational speed	0.03-3.0 RPM
Center of rotation	≤0.25 pixel (64x64 matrix)
Max. caudal tilt	+16°/-16°

Patient Bed

Width	81.9 cm (32.2 in)
Length	248.0 cm (8 ft 1.6 in)
Weight without ICC/ACC	950 kg (2,096 lb)
Height	112.0 cm (3 ft 8 in)
Vertical motion range	48.0-112.0 cm (19-44 in)
Vertical speed	72 cm/min (28 in/min), maximum
Pallet material	Carbon fiber
Pallet thickness	15 mm (.6 in)
Pallet width	40.0 cm (15.8 in)
Attenuation at 140 keV	<10%
Max. patient weight	227 kg (500 lb)
Max. deflection of patient pallet	<2.0 mm (<0.08 in) for 92 kg (200 lb) patient
Max. scan length in whole-body mode	203 cm (6 ft 6.7 in)
Horizontal motion accuracy	0.7 mm (0.03 in)
Min./max. horizontal speed	3-600 cm/min (1.2-236 in/min)



SPECT Specifications

Optional Pallets

Pediatric	Material	Carbon fiber composite
	Thickness	0.6 cm (0.25 in)
	Width	25.4 cm (10 in)
	Length	145 cm (57 in)
	Weight	7.3 kg (16 lb)
	Attenuation at 140 keV	<10%
	Max. patient weight	27 kg (60 lb)
Scintimammography	Material	Carbon fiber composite
	Thickness	1.6 cm (0.63 in)
	Width	35.6 cm (14 in)
	Length	190.5 cm (75 in)
	Weight	7.7 kg (17 lb)
	Attenuation at 140 keV	<10%
	Max. patient weight	135 kg (300 lb)
Radiotherapy planning	Material	Carbon fiber composite
	Thickness	1.5 cm (0.6 in)
	Width	53 cm (20.9 in)
	Length	203.5 cm (80.1 in)
	Weight	9 kg (20 lb)
	Attenuation at 140 keV	<10%
	Max. patient weight	227 kg (500 lb)
Rear Pallet Support		
Width	26.3 cm (10.3 in)	
Length	104.3 cm (3 ft 5.1 in)	
Weight	188.3 kg (415.2 lb)	



SPECT Specifications

ECG Trigger	
Integration	Internal (inside patient bed) or external
Framing modes	Forward or forward/backward by thirds
Buffered beat window	Yes
Bad beat rejection	Yes
Criteria for framing images	Frames/R-R interval
Beat acceptance window	Automatic or manual selection
Collimator Exchanger Cart	
Height	101.4 cm (3 ft 3.9 in)
Width	82.8 cm (2 ft 8.6 in)
Depth	120.4 cm (3 ft 11.4 in)
Weight (without collimators)	181.4 kg (400 lb)
Detector Dimensions	
FOV	53.3x38.7 cm (21x15.25 in)
Diagonal FOV	65.9 cm (25.9 in)
Crystal	
Size	59.1x44.5 cm (23.25x17.5 in)
Diagonal	73.9 cm (29.1 in)
Thickness	9.5 mm (3/8 in) or 15.9 mm (5/8 in)
Photomultiplier Tubes	
Total number	59
Diameter	53-7.6 cm (3 in) and 6-5.1 cm (2.4-2 in)
Type	Bialkali high-efficiency box-type dynodes
Array	Hexagonal
Sampling rate	30.0 MHz
Detector Shielding	
Back	9.5 mm (0.375 in)
Sides	12.7 mm (0.5 in)
Min./max. in patient direction ⁵	27.9/36.4 mm (1.1/1.435 in)
Brain reach ⁶	7.6 cm (3 in)



SPECT Specifications

Detector	3/8"	5/8"
Intrinsic spatial resolution		
Full width at half maximum (FWHM) in central field of view (CFOV)	≤3.8 mm	≤4.5 mm
FWHM in useful field of view (UFOV)	≤3.9 mm	≤4.6 mm
Full width at tenth maximum (FWTM) in CFOV	≤7.5 mm	≤8.7 mm
FWTM in UFOV	≤7.7 mm	≤8.9 mm
Intrinsic spatial linearity		
Differential in CFOV	≤0.2 mm	≤0.2 mm
Differential in UFOV	≤0.2 mm	≤0.2 mm
Absolute in CFOV	≤0.4 mm	≤0.5 mm
Absolute in UFOV	≤0.7 mm	≤1.0 mm
Intrinsic energy resolution		
FWHM in CFOV	≤9.9%	≤9.9%
Intrinsic flood field uniformity (uncorrected)		
Differential in CFOV	≤2.5%	≤2.5%
Differential in UFOV	≤2.7%	≤2.7%
Integral in CFOV	≤2.9%	≤2.9%
Integral in UFOV	≤3.7%	≤3.7%
Multiple window spatial registration		
Intrinsic count rate performance in air		
Maximum count rate	≥460 kcps	≥460 kcps
Maximum count rate (@15% window)	≥310 kcps	≥310 kcps
Intrinsic spatial resolution at 75 kcps		
FWHM in CFOV	≤4.1 mm	≤4.6 mm
FWTM in CFOV	≤7.8 mm	≤8.9 mm
Intrinsic flood field uniformity at 75 kcps (uncorrected)		
Differential in CFOV	≤2.5%	≤2.5%
Differential in UFOV	≤2.7%	≤2.7%
Integral in CFOV	≤2.9%	≤2.9%
Integral in UFOV	≤3.7%	≤3.7%



SPECT Specifications

High Count Rate Performance ^b	3/8"	5/8"
Detector specifications at 310 kcps^a		
Intrinsic flood field uniformity (uncorrected)		
Differential in CFOV	≤3.0%	—
Differential in UFOV	≤3.2%	—
Integral in CFOV	≤3.4%	—
Integral in UFOV	≤4.2%	—
Intrinsic energy resolution ^{99m}Tc		
FWHM in CFOV	≤11.9%	—
Stability of energy peak position		
Change of peak position (≤310 kcps) ^a	≤0.5%	—
System spatial resolution without scatter (LEHR at 10 cm)		
FWHM in CFOV	≤8.0 mm	—
FWTM in CFOV	≤14.6 mm	—
Detector with Collimator ^c	3/8"	5/8"
System spatial resolution without scatter (LEHR at 10 cm)		
FWHM in CFOV	≤7.5 mm	≤7.8 mm
FWTM in CFOV	≤13.6 mm	≤14.9 mm
System spatial resolution with scatter (LEHR at 10 cm)		
FWHM in CFOV	≤8.3 mm	≤8.9 mm
FWTM in CFOV	≤18.6 mm	≤19.5 mm
System planar sensitivity (LEHR at 10 cm)		
Absolute	202 cpm/µCi	225 cpm/µCi
System planar sensitivity (MELP at 10 cm)		
Absolute ¹¹¹ In	430 cpm/µCi	565 cpm/µCi



SPECT Specifications

Detector with Collimator Tomographic ^a	3/8"	5/8"
Reconstructed spatial resolution without scatter at 15 cm radius (LEHR)	Filtered back projection	
Central transaxial	≤10.2 mm	-
Central axial	≤10.8 mm	-
Peripheral radial	≤9.8 mm	-
Peripheral tangential	≤8.4 mm	-
Peripheral axial	≤9.0 mm	-
Reconstructed spatial resolution without scatter at 15 cm radius (LEHR)	Flash 3D iterative reconstruction	
Central transaxial	≤4.4 mm	-
Central axial	≤4.4 mm	-
Peripheral radial	≤4.0 mm	-
Peripheral tangential	≤3.9 mm	-
Peripheral axial	≤4.2 mm	-
Reconstructed spatial resolution with scatter (LEHR)	Filtered back projection	
Center	≤10.7 mm	≤11.5 mm
Radial	≤10.9 mm	≤12.0 mm
Tangential	≤7.9 mm	≤8.8 mm
Reconstructed spatial resolution with scatter (LEHR)	Flash 3D iterative reconstruction	
Center	≤5.8 mm	-
Radial	≤5.0 mm	-
Tangential	≤4.1 mm	-
Average volume sensitivity per axial centimeter		
LEHR, ^{99m} Tc	12,000 (cts/sec)/(MBq/cm ²)	-
Detector-to-detector sensitivity variation		
LEHR, ^{99m} Tc	≤5.0%	-
Detector with Collimator Whole-body Scanning ^b	3/8"	5/8"
Whole-body system spatial resolution without scatter at 10 cm/min scan speed (LEHR at 10 cm)		
FWHM perpendicular	≤7.5 mm	-
FWHM parallel	≤7.9 mm	-
FWTM perpendicular	≤14.0 mm	-
FWTM parallel	≤14.2 mm	-



SPECT Specifications

Collimators	LEHR	LPHR	LEAP	LEUHR	LEFB	MELP	HE	SMART-ZOOM
	Low Energy High Resolution	Low Penetration High Resolution	Low Energy All Purpose	Low Energy Ultra-high Resolution	Low Energy Fan Beam	Medium Energy Low Penetration	High Energy	IQ•SPECT
Isotope	^{99m}Tc	^{123}I	^{99m}Tc	^{99m}Tc	^{99m}Tc	^{67}Ga	^{131}I	^{99m}Tc
Hole shape	Hex	Hex	Hex	Hex	Hex	Hex	Hex	Hex
Number of holes (x1000)	148	86	90	146	64	14	8	48
Hole length	24.05 mm	35.0 mm	24.05 mm	35.8 mm	35 mm	40.64 mm	59.7 mm	40.25 mm
Septal thickness	0.16 mm	0.2 mm	0.2 mm	0.13 mm	0.16 mm	1.14 mm	2 mm	0.2-0.4 mm
Hole diameter across the flats	1.11 mm	1.5 mm	1.45 mm	1.16 mm	1.53 mm	2.94 mm	4 mm	1.9 mm
Sensitivity at 10 cm ¹⁰	202 cpm/ μCi	330 cpm/ μCi	330 cpm/ μCi	100 cpm/ μCi	280 cpm/ μCi	275 cpm/ μCi	135 cpm/ μCi	285 cpm/ μCi ¹¹
								810 cpm/ μCi at 28 cm ¹¹
Geometric resolution at 10 cm	6.4 mm	6.4 mm	8.3 mm	4.6 mm	6.3 mm	10.8 mm	13.2 mm	6.95 mm
System resolution at 10 cm	7.5 mm	8.0 mm	9.4 mm	6.0 mm	7.3 mm	12.5 mm	13.4 mm	7.4 mm ¹²
Calculated penetration	1.5%	1.2%	1.9%	0.8%	1.0%	1.2%	3.5%	N/A
Weight	22.1 kg (48.7 lb)	33.1 kg (73 lb)	22.6 kg (49.8 lb)	28 kg (61.8 lb)	28.4 kg (62.5 lb)	63.5 kg (140.1 lb)	124.7 kg (275 lb)	47.2 kg (104 lb)



SPECT Specifications

Pinhole Collimator ¹⁰	Isotope		
	^{99m} Tc	¹²³ I	¹³¹ I
Hole shape	Round	Round	Round
Number of holes	1	1	1
Cone aperture	4 mm 6 mm 8 mm	4 mm 6 mm 8 mm	4 mm 6 mm 8 mm
Cone length	219.3 mm	219.3 mm	219.3 mm
Diameter at base of cone (approximate)	220 mm	220 mm	220 mm
Sensitivity at 10 cm with 4 mm	123 cpm/ μ Ci	111 cpm/ μ Ci	67 cpm/ μ Ci
Sensitivity at 10 cm with 6 mm	271 cpm/ μ Ci	243 cpm/ μ Ci	133 cpm/ μ Ci
Sensitivity at 10 cm with 8 mm	478 cpm/ μ Ci	426 cpm/ μ Ci	221 cpm/ μ Ci
Geometric resolution at 10 cm with 4 mm	6.2 mm	6.3 mm	7.5 mm
Geometric resolution at 10 cm with 6 mm	9.3 mm	9.3 mm	10.6 mm
Geometric resolution at 10 cm with 8 mm	12.3 mm	12.4 mm	13.6 mm
System resolution at 10 cm with 4 mm	6.6 mm	6.6 mm	7.6 mm
System resolution at 10 cm with 6 mm	9.5 mm	9.5 mm	10.7 mm
System resolution at 10 cm with 8 mm	12.5 mm	12.5 mm	13.7 mm
Weight	80.3 kg (177 lb)	80.3 kg (177 lb)	80.3 kg (177 lb)



CT Specifications

Gantry Dimensions	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Aperture	70 cm	70 cm	70 cm
Scan field	50 cm	50 cm	50 cm
Rotation time	0.5 s 0.6 s 1.0 s 1.5 s	0.6 s 0.8 s 1.0 s 1.5 s	0.8 s 1.0 s 1.5 s
Temporal resolution (min.) ¹³	125 ms	150 ms	-
Data Acquisition System	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Max. number of slices/rotation	16	6	2
Number of physical detector rows	24	16	2
Number of physical detector channels/slice	736	736	672
Number of detector elements	17,664	11,776	1,344
Total channels per slice	1,472	1,472	1,344
Number of projections	Up to 1,250 (1 s/360°)	Up to 1,875 (1 s/360°)	Up to 1,500 (1.5 s/360°)
Sequence acquisition modes	4x0.6 mm 12x0.6 mm 16x0.6 mm 2x5 mm 12x1.2 mm 2x8 mm 16x1.2 mm	6x1 mm 6x2 mm 6x3 mm 2x5 mm	2x1 mm 2x1.5 mm 2x2.5 mm 2x4 mm 2x5 mm
Spiral acquisition modes	4x0.6 mm 16x0.6 mm 16x1.2 mm	6x0.5 mm 1x1 mm 6x1 mm 6x2 mm 6x3 mm 2x5 mm	2x1 mm 2x1.5 mm 2x2.5 mm 2x4 mm 2x5 mm



CT Specifications

Tube Assembly	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Tube	DURA 422 MV high-performance CT X-ray tube	DURA 422 MV high-performance CT X-ray tube	DURA 352 MV high-performance CT X-ray tube
Tube current	20-345 mA	20-345 mA	30-240 mA
Tube voltage	80, 110, 130 kV	80, 110, 130 kV	80, 110, 130 kV
Tube anode heat storage capacity	5.0 MHU	5.0 MHU	3.5 MHU
Focal spot size according to IEC 60336	0.8x0.5 mm/7° 0.8x0.7 mm/7°	0.8x0.5 mm/7° 0.8x0.7 mm/7°	0.8x0.7 mm/8° 0.8x0.7 mm/7°
CARE Filter	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
CARE filter tube	Equivalent to 5.5 mm Al at 140 kV	Equivalent to 5.5 mm Al at 140 kV	Equivalent to 5.5 mm Al at 140 kV
CARE filter beam limiting device	0.5 mm Al	0.5 mm Al	Equivalent to 0.25 mm Al (75 kV/HVL 1.8 mm Al)
Generator	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Max. power	50 kW	50 kW	40 kW



CT Specifications

Topogram	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Length (max.)	184 cm (6 ft)	184 cm (6 ft)	184 cm (6 ft)
Scan times	2.1-19.3 s	2.1-19.3 s	2.1-19.3 s
Views	a.p., p.a., lateral	a.p., p.a., lateral	a.p., p.a., lateral
Sequence Acquisition	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Reconstructed slice widths	0.6, 1.2, 2.4, 3.6, 4.8, 5.0, 8.0, 9.6, 10.0, 16.0 ¹⁴ , 19.2 mm	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 9.0, 10.0, 12.0, 18.0 mm	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 8.0, 10.0 mm
Scan times full scan (360°)	0.5 ¹⁴ , 0.6, 1.0, 1.5 s ($\pm 5\%$)	0.6, 0.8, 1.0, 1.5 s ($\pm 5\%$)	0.8, 1.0, 1.5 s ($\pm 5\%$)
Partial scan times (240°)	0.35, 0.42 s ($\pm 5\%$)	0.4, 0.53 s ($\pm 5\%$)	0.53, 0.67 s ($\pm 5\%$)
Number of uninterrupted scans per range	99	99	99
Number of ranges in autorange	8	8	8
Standard scan cycle time ($\pm 10\%$)	1.8 s at 0.6 s scan time, 1.75 s at 0.5 s scan time ¹³	2.1 s at 0.6 s scan time, 2.4 s at 0.8 s scan time ¹³	2.5 s 1.0 s at scan time
Multislice Spiral Acquisition	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Reconstructed slice widths	0.6, 0.75, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm	0.63 ¹⁶ , 0.75 ¹⁶ , 1.0, 1.25, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm	1.0, 1.25, 2.0, 3.0, 5.0, 6.0, 8.0, 10.0 mm
Scan times full scan (360°)	0.5, 0.6, 1.0, 1.5 s	0.6, 0.8, 1.0, 1.5 s	0.8, 1.0, 1.5 s
Reconstruction increment	0.1-10 mm	0.1-10 mm	0.1-10 mm
Pitch factor	0.4-1.5 (with cone beam correction), 0.4-2.0 (without cone beam correction), 0.33 (ECG-gated studies)	0.4-1.8	0.5-2.0
Volume pitch	6.4-32.0	3.0-10.8	1.0-4.0
Spiral scan time max.	100 s	100 s	100 s
CT scan range	0-200 cm	0-200 cm	0-200 cm
Continuous scan length and SPECT/CT co-scan range	186 cm (6 ft 1 in)	168 cm (5 ft 6 in)	168 cm (5 ft 6 in)



CT Specifications

Dynamic Multiscan	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2
Dynamic scan cycle time ($\pm 10\%$)	0.9 s at 0.6 s scan time, 0.75 s at 0.5 s scan time ¹³	0.9 s at 0.6 s scan time, 1.2 s at 0.8 s scan time	1.2 s at 0.8 s scan time, 1.5 s at 1.0 s scan time
Image Reconstruction			
Real-time display ¹³	512x512	512x512	512x512
Slice thickness	0.6-19.2 mm	0.6-18.0 mm	1.0-10.0 mm
Scan field	50 cm	50 cm	50 cm
Recon field	5-50 cm, 5-70 cm ¹⁵	5-50 cm, 5-70 cm ¹⁵	5-50 cm, 5-70 cm ¹⁵
Recon time	up to 16 images/s	up to 8 images/s	up to 5 images/s
Recon matrix	512x512	512x512	512x512
HU scale	-1,024 to +3.071	-1,024 to +3.071	-1,024 to +3.071
Extended HU scale	-10,240 to +30,710	-10,240 to +30,710	-10,240 to +30,710
Phantom CATPHAN (16 cm)			
Object size	3 mm	3 mm	3 mm
Contrast difference	3 HU	3 HU	3 HU
Dose at surface	21.5 mGy ¹⁶ at 102 mAs	19.7 mGy ¹⁶ at 100 mAs	19.7 mGy ¹⁶ at 100 mAs
Technique	0.6 s, 10 mm, 130 kV	0.6 s, 10 mm, 130 kV	0.8 s, 10 mm, 130 kV
Phantom CATPHAN (20 cm)			
Object size	5 mm	5 mm	5 mm
Contrast difference	3 HU	3 HU	3 HU
Dose at surface	16.6 mGy ¹⁵ at 100 mAs	15.8 mGy ¹⁵ at 90 mAs	15.8 mGy ¹⁵ at 90 mAs
Technique	0.6 s, 10 mm, 130 kV	0.6 s, 10 mm, 130 kV	0.8 s, 10 mm, 130 kV



CT Specifications

High-contrast Resolution	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2				
0% MTF ($\pm 10\%$)	17.5 lp/cm, 0.29 mm	17.5 lp/cm, 0.29 mm	15.5 lp/cm, 0.32 mm				
2% MTF ($\pm 10\%$)	15.6 lp/cm, 0.32 mm	15.1 lp/cm, 0.32 mm	14 lp/cm, 0.36 mm				
Technique: Tungsten wire in air	160 mAs, 130 kV, 1 s, 2.4 mm	160 mAs, 130 kV, 0.8 s, 1.0 mm	60 mAs, 130 kV, 1.5 s, 1.0 mm				
Homogeneity	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2				
Cross-field uniformity in a 20 cm water phantom positioned near the center of rotation	Typical ± 2 HU (max. ± 4 HU)	Typical ± 2 HU (max. ± 4 HU)	Typical ± 2 HU (max. ± 4 HU)				
Dose, CTDI ₁₀₀ Values ¹⁷	Symbia Intevo 16	Symbia Intevo 6	Symbia Intevo 2				
Phantom Ø							
	110 kV	130 kV	110 kV	130 kV	110 kV	130 kV	
16 cm	A	14.1	21.3	13.3	20.1	14.4	21.7
	B	15.2	22.3	13.6	20.3	15.7	23.3
32 cm	A	4.1	6.6	3.9	6.2	4.2	6.7
	B	8.2	13.5	7.6	11.6	8.4	12.8

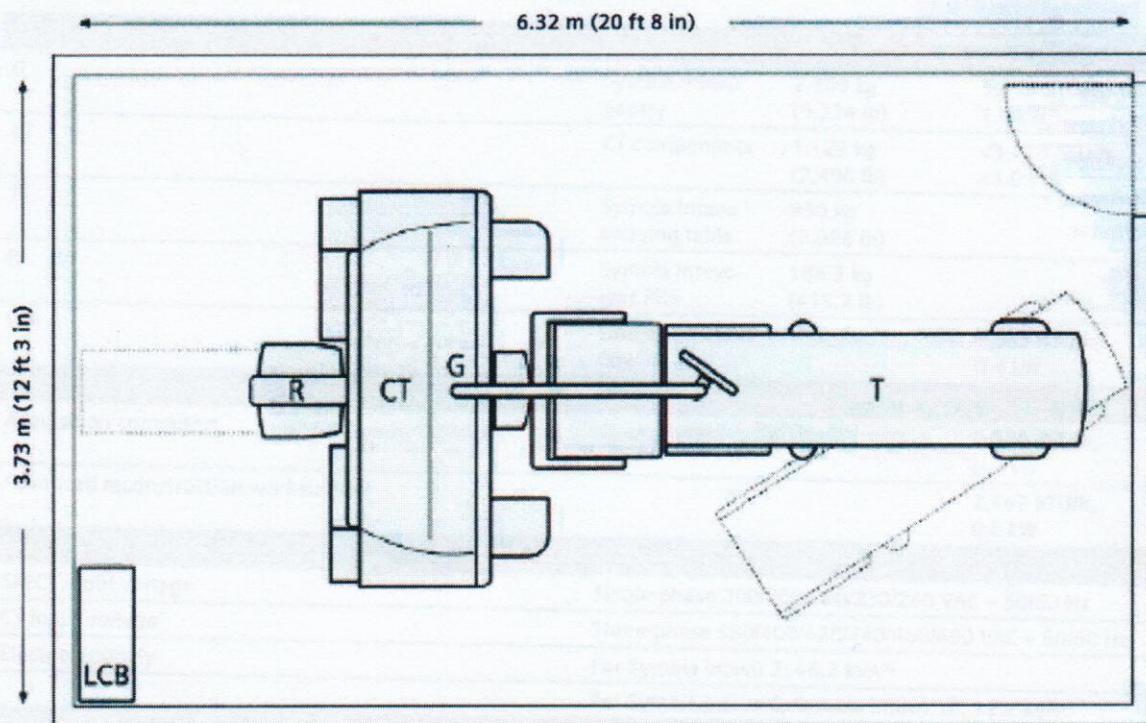
NOTE: A is at the center and B is 1 cm below the surface. All values are in mGy/100 mAs.



xSPECT Advanced Specifications

Advanced Bone Imaging	
Context-based information	Symbia Intevo 2, 6 and 16
Extra modality information	Yes, applied to ^{99m}Tc diphosphonate bone SPECT
CT zone classification	Zone map (a map with up to 6 tissue zones)
Reconstruction software	Cortical bone, spongy bone, soft tissue, air, adipose (fat), metal
Reconstruction matrix size	xSPECT Bone
Attenuation map	256x256
Quantification	Linear attenuation coefficients @ 140 keV
System calibration source	Symbia Intevo 2, 6 and 16
System calibration procedure	3%-NIST-traceable precision source (^{57}Co source or ^{75}Se source)
Data format	Monthly
Reconstruction software	Data is saved in PET format
Volumetric analysis software	xSPECT Quant
Quantitative volumetric analysis	syngo.via, Symbia.net
Absolute quantification	In units of Bq/ml, SUV or count-rate-per-voxel
Quantitative SPECT studies for common SPECT radiopharmaceuticals in combination with all parallel hole collimators	xSPECT Quant ^{99m}Tc , ^{123}I , ^{111}In and ^{177}Lu
xSPECT Quant: Accuracy of Bq/ml Quantification in Reference to NIST, Measured Using NEMA NU2-94 Test Phantom	
Isotope/collimator	
^{99m}Tc LEHR	Uncertainty (95% confidence)
^{99m}Tc LPHR	$\leq 5\%$
^{123}I LPHR	$\leq 10\%$
^{123}I MELP	$\leq 10\%$
^{111}In MELP	$\leq 10\%$
^{177}Lu MELP	$\leq 5\%$
^{177}Lu MELP at 310kcps incident count rate ⁸	$\leq 10\%$
Broad Quantification: Reproducibility of Bq/ml Quantification in Reference to a Dose Calibrator, Measured Using NEMA NU2-94 Test Phantom	
Isotope/collimator	
^{131}I HE	Reproducible within
^{67}Ga MELP	$\leq 10\%$

Minimum Room Size¹⁸



Scanner room size	3.73 m (12 ft 3 in)x6.32 m (20 ft 8 in)
Ceiling height	2.44 m (8 ft 0 in)
Hung ceiling height	2.29 m (7 ft 6 in)



Installation and Quality Control Specifications

Room Diagram Label	Item Name	Weight	Heat Output
G	Symbia Intevo gantry	2,369 kg (5,224 lb)	3,413 BTU/h, 1.0 kW ¹⁹
CT	CT components	1,129 kg (2,490 lb)	<3,413 BTU/h, <1.0 kW
T	Symbia Intevo imaging table	950 kg (2,096 lb)	
R	Symbia Intevo rear PHS	188.3 kg (415.2 lb)	
LCB	Line connection box		1,365 BTU/h, 0.4 kW
Control Room Heat Output			
Acquisition computers			2,389 BTU/h, 0.7 kW
Advanced reconstruction workstation			2,142 BTU/h, 0.8 kW
Power Requirements			
SPECT input voltage	Single-phase 200/208/220/230/240 VAC ~ 50/60 Hz		
CT input voltage	Three-phase 380/400/420/440/460/480 VAC ~ 50/60 Hz		
Electrical supply	For Symbia Intevo 2: 46.2 kVA ²⁰		
For Symbia Intevo 6, Symbia Intevo 16: 72.2 kVA ²⁰			
Environment			
Floor loading	5.1 kg/sq cm (72 lb/sq in) maximum under the gantry		
Ambient operating temperature	18-30° C (64-86° F)		
Allowable temperature change	4.4° C (8° F) per hour		
Humidity range	20-80% non-condensing		
Allowable humidity change	5%/hour		
Heat dissipation	10,580 BTU/h, 3.1 kW ²¹		
Maximum altitude	2,438 m (8,000 ft)		
Standard Quality Control Procedures			
Nuclear Medicine	Symbia Intevo 2, 6 and 16		
Daily	Intrinsic verification or extrinsic verification		
Weekly	Intrinsic verification with tune		
Monthly	Intrinsic verification with tune, multiple head registration (MHR) 180° head alignment verification		
Monthly for users performing quantitative studies	Sensitivity calibration		
Every 6 months or per regulatory/license requirements (if applicable)	Leak test of the automated quality control device sources		
Computed Tomography			
Daily	CT checkup every 12 hours, CT quality check daily, CT calibration after 1 hour or if ring artifacts occur		
Monthly	CT constancy test		



Footnotes

¹ Symbia Intevo, xSPECT, xSPECT Bone, xSPECT Quant, Broad Quantification and TrueCalc are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

² xSPECT Quant ¹⁷⁷Lu is not commercially available in some countries, including the US. ¹⁷⁷Lu is not currently recognized by the US FDA as being safe and effective, and Siemens does not make any claims regarding its use. Due to regulatory reasons, its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

³ Gantry weight: NM gantry 2,374 kg (5,224 lb) + CT gantry 1,132 kg (2,490 lb).

⁴ All collimators may not be supported by all detector configurations.

⁵ For any point on the pallet at maximum 183 cm (6 ft) from the detector while the detector is at 25.4 cm (10 in) radial position.

⁶ Distance from the edge of the detector housing to the edge of the FOV.

⁷ Values are determined at the manufacturer's facility using methods described in NEMA Standards Publications NU 1-2012 "Performance measurements of Scintillation Cameras."

⁸ With TrueCalc high count rate detector technology.

⁹ Incident count rate.

¹⁰ Values measured in accordance with NEMA Standards Publication NU-1 2012 using 3/8" crystal.

¹¹ Values measured using a 5 cm diameter phantom.

¹² Values measured with lines spaced 2 cm apart at the center of the collimator.

¹³ Requires syngo Heartview CT option.

¹⁴ Requires high-resolution option.

¹⁵ The reconstruction area outside the standard 50 cm FOV is for visualization purposes only and is not of diagnostic image quality.

¹⁶ Air KERMA, measured on the surface of the phantom with max. deviation $\pm 30\%$.

¹⁷ PMMA Phantom. Absorbed dose for reference material air. Max. deviation $\pm 30\%$. Expected deviation $\pm 15\%$. Slice >1 mm. Please note that these specifications are CTDI100 values.

¹⁸ Example layout. Please request site-specific plans for your project.

¹⁹ Symbia Intevo 2 has a lower heat dissipation value of 1,365 BTU/h, 0.4 kW.

²⁰ Maximum power consumption during CT operation.

²¹ In idle mode, values higher during CT operation mode.

The General and Specific Safety Instructions apply to the use of the Symbia Intevo, xSPECT, xSPECT Bone, xSPECT Quant, Broad Quantification and TrueCalc systems. All other components, accessories, products and services offered may be trademarks or registered trademarks of their respective companies.

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Global Business Line

Siemens Medical Solutions USA, Inc.

Molecular Imaging

2501 North Barrington Road

Hoffman Estates, IL 60192

USA

Phone: +1 847 304-7700

siemens.com/mi

Legal Manufacturer

Siemens Medical Solutions USA, Inc.

Molecular Imaging

2501 N. Barrington Road

Hoffman Estates, IL 60192

USA

Telephone: +1 847 304-7700

siemens.com/mi

MI-3325.TM.JV.PDF ONLY

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Siemens Molecular Imaging reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local sales representative for the most current information. Some options and functionality will not be available immediately on product release. Where certain options and functionality are not available on delivery, these will be delivered as part of subsequent software or hardware releases. Please confirm availability and timing with your representative.

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100-01-PHYS-0
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„Nemocnice Kyjov-dodávka přístrojů pro radiologické oddělení a oddělení nukleární medicíny“
Část A – Hybridní kamera SPECT/CT

Adresy servisních středisek Siemens Healthcare, s. r. o.

Dodávka	Adresa	Telefon/fax	e-mail
Hybridní kamera SPECT/CT Symbia Intevo 2	Servisní středisko Praha: Siemens Healthcare, s.r.o. Siemensova 1 155 00 Praha 5 Servisní středisko Brno: Siemens Healthcare,s.r.o. Karásek 1, 621 00 Brno	Centrální dispečink hotline: 800 888 910 - linka zdarma, nepřetržitý provoz fax: 233 032 009 kontaktní osoba: Ing. Radek Matějka tel:+420 724 120 213	medicinskyservis.cz@siemens.com

**POBOČKA HRADEC
KRÁLOVÉ:**

Šimkova 1224
500 02 Hradec Králové

**POBOČKA
OSTRAVA:**

28.října 150/2663
702 00 Ostrava

**POBOČKA ČESKÉ
BUDĚJOVICE:**

Čechova 59
370 65 České Budějovice

Siemens Healthcare, s.r.o.
Management: Ing. Vratislav Švorčík
Ing. Karel Kopejtko

Siemensova 2715/1
155 00 Praha 5
Česká republika

Tel.: +420 233 032 001
Fax: +420 233 032 008
siemens.cz/healthcare

Siemens Healthcare, s.r.o. – jednatelé: Ing. Vratislav Švorčík, Ing. Karel Kopejtko – registrace v ob. rejstříku, vedeném Městským soudem v Praze, oddíl C, vložka 243166
Sídlo: Siemensova 2715/1, Stodůlky, 155 00 Praha 5, Česká republika





SIEMENS

EC DECLARATION OF CONFORMITY

according to Annex II without Chapter II.4 of Council Directive 93/42/EEC

Manufacturer Siemens Medical Solutions USA, Inc.
 Molecular Imaging
 2501 N. Barrington Road
 Hoffman Estates, IL 60192

Authorized EU Representative Siemens AG
 Medical Solutions
 Henkestrasse 127
 91052 Erlangen
 Germany

Type of device SPECT/CT

Medical device Symbia Intevo Excel, Intevo 2, Intevo 6, Intevo 16

Product identification see next page

Classification Class IIb (according to Annex IX to Council Directive 93/42/EEC)

We declare the compliance of the above medical device with the requirements of the Council Directive 93/42/EEC. The conformity of the full quality assurance system is certified by:

BSI Product Services
Kitemark Court
Davy Avenue
Knowlhill
Milton Keynes
MK5 8PP
UK

The identification number of the notified body for implementation of the procedure set out in Annex II to the above Directive is 086. This declaration of conformity is issued under the sole responsibility of Siemens Medical Solutions USA, Inc, Molecular Imaging. This declaration supersedes any declaration issued previously for the same product.

Place and date Hoffman Estates, IL November 21, 2013

Name James Williams
(CEO, Siemens Molecular Imaging) Matt Shah
(Vice President, RA/QA)

Signature

For conditions of guarantee and liability please refer to our General Conditions of Sale.

10908773 QCE 000 01
QRMI0094-T-03

Page 1 of 2
Reference: QRMI0102-M



EC DECLARATION OF CONFORMITY

Product identification

Product 1	Symbia Intevo Excel	Part No. 10764801
Product 2	Symbia Intevo 2	Part No. 10764802
Product 3	Symbia Intevo 6	Part No. 10765268
Product 4	Symbia Intevo 16	Part No. 10764803

This declaration of conformity is issued under the responsibility of the signatory.

Symbia Intevo 2, Intevo 6, Intevo 16, Intevo 16 Pro

in full accordance with:

EU Directive 2006/95/EC (Annex II) - Radio Equipment Directive

EN 300-328 V2.1.1 (2006-09) - Technical requirements for radio equipment and related terminals

EN 300-421 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 1: Radio equipment operating in the 2.4 GHz ISM band

EN 300-422 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 2: Radio equipment operating in the 5 GHz ISM band

EN 300-423 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 3: Radio equipment operating in the 5 GHz ISM band

EN 300-424 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 4: Radio equipment operating in the 5 GHz ISM band

EN 300-425 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 5: Radio equipment operating in the 5 GHz ISM band

EN 300-426 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 6: Radio equipment operating in the 5 GHz ISM band

EN 300-427 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 7: Radio equipment operating in the 5 GHz ISM band

EN 300-428 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 8: Radio equipment operating in the 5 GHz ISM band

EN 300-429 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 9: Radio equipment operating in the 5 GHz ISM band

EN 300-430 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 10: Radio equipment operating in the 5 GHz ISM band

EN 300-431 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 11: Radio equipment operating in the 5 GHz ISM band

EN 300-432 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 12: Radio equipment operating in the 5 GHz ISM band

EN 300-433 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 13: Radio equipment operating in the 5 GHz ISM band

EN 300-434 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 14: Radio equipment operating in the 5 GHz ISM band

EN 300-435 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 15: Radio equipment operating in the 5 GHz ISM band

EN 300-436 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 16: Radio equipment operating in the 5 GHz ISM band

EN 300-437 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 17: Radio equipment operating in the 5 GHz ISM band

EN 300-438 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 18: Radio equipment operating in the 5 GHz ISM band

EN 300-439 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 19: Radio equipment operating in the 5 GHz ISM band

EN 300-440 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 20: Radio equipment operating in the 5 GHz ISM band

EN 300-441 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 21: Radio equipment operating in the 5 GHz ISM band

EN 300-442 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 22: Radio equipment operating in the 5 GHz ISM band

EN 300-443 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 23: Radio equipment operating in the 5 GHz ISM band

EN 300-444 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 24: Radio equipment operating in the 5 GHz ISM band

EN 300-445 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 25: Radio equipment operating in the 5 GHz ISM band

EN 300-446 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 26: Radio equipment operating in the 5 GHz ISM band

EN 300-447 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 27: Radio equipment operating in the 5 GHz ISM band

EN 300-448 V1.4.1 (2006-09) - Radio equipment and related terminals - Part 28: Radio equipment operating in the 5 GHz ISM band

10908773 QCE 000 01
QRMI0094-T-03

Page 2 of 2
Reference: QRMI0102-M



SIEMENS

ES PROHLÁŠENÍ O SHODĚ

dle přílohy II bez kapitoly II.4 Směrnice Rady č. 93/42/EHS

Výrobce

Siemens Medical Solutions USA, Inc.
Molecular Imaging / Molekulární zobrazování
2501 N. Barrington Road
Hoffman Estates, IL 60192

Oprávněný zástupce

Siemens AG
Medical Solutions
Henkestrasse 127
91052 Erlangen
Německo

Typ zařízení

SPECT/CT

Zdravotnický prostředek

Symbia Intevo Excel, Intevo 2, Intevo 6, Intevo 16

Identifikace výrobků

viz další strana

Klasifikace

Třída IIb (dle přílohy IX Směrnice Rady č. 93/42/EHS)

Prohlašujeme tímto, že výše uvedený zdravotnický prostředek je ve shodě s požadavky Směrnice Rady č. 93/42/EHS. Shodu systému zajištění celkové kvality potvrdila certifikační společnost:

BSI Product Services
Kitemark Court
Davy Avenue
Knowlhill
Milton Keynes
MK5 8PP
UK

Identifikační číslo notifikovaného orgánu pro zavedení postupů stanovených přílohou II výše uvedené Směrnice je 086. Toto prohlášení o shodě se vydává na výhradní odpovědnost společnosti Siemens Medical Solutions USA, Inc. Molecular Imaging.

Toto prohlášení nahrazuje jakékoli dříve vydané prohlášení vztahující se na tentýž výrobek.

Místo a datum

Hoffman Estates, IL

21. listopadu 2013

Jméno

James Williams

Matt Shah

(Výkonný ředitel, Siemens Molecular Imaging) (Viceprezident, Oddělení kvality)

Podpis

podpis nečitelný

Podmínky záruky a odpovědnosti naleznete v našich Všeobecných prodejních podmínkách.



Identifikace výrobků

Výrobek 1	Symbia Intevo Excel	Id. č. dílu 10764801
Výrobek 2	Symbia Intevo 2	Id. č. dílu 10764802 Id. č. dílu 10765268
Výrobek 3	Symbia Intevo 6	Id. č. dílu 10764803
Výrobek 4	Symbia Intevo 16	Id. č. dílu 10764804

10908773 QCE 000 01
QRMI0094-T-03

Strana 2 ze 2
Reference: QRMI0102-M



Tlumočnická doložka

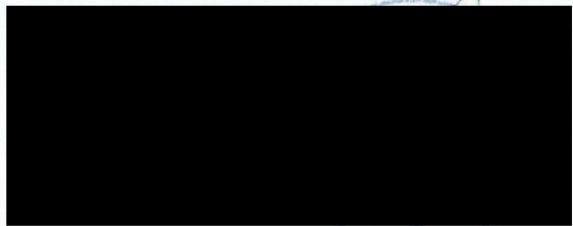
Jako tlumočník jazyka anglického, jmenovaný rozhodnutím Krajského soudu v Brně ze dne 1. 3. 2004, č.j. Spr. 3235/2003, stvrzuji, že překlad souhlasí s textem připojené listiny.

V překladu jsem provedla tyto opravy:
.....

Tlumočnický úkon je zapsán pod pořadovým č. 5310 deníku.

Odměnu účtuji za stran.

Dne 24. 4. 2014





EC DECLARATION OF CONFORMITY

According to Annex I to Council Directive 93/42/EEC of July 14, 1993

Supplier Information:

Medical Devices

2601 Belair Avenue S

Hoffman Estates

IL 60163

Veritas PG Medical Solutions Group

Hoffmann Estates

IL 60163 USA

M1 Workshop

See Datasheet

Class II (according to Rule 10 of Annex IV to
Council Directive 93/42/EEC)

We declare the conformance of the above medical device with the requirements of
the Council Directive 93/42/EEC of June 14, 1993 as amended by Council Directive
2007/47/EC. Any mention of a non-notified medical device not authorized by us will
invalidate this declaration.

The conformity of the PMA safety assurance system is certified by:

BSI Product Services
Maylands Avenue
Keweenaw
Norton Shores MI 49449 USA

The identification number of the notified body for implementation of the
product-specific annexes to the above Directive is 0606.

Signature:

Matthew Estep

March 21, 2010

Printed Name:
Matthew Estep
Position: General Manager

Printed Name:
John Motter
Position: President



Matthew Estep

Conditions of guarantee and warranty can be referred to the General Conditions of Sale



EC Declaration of Conformity – MI Workstations
Page 1 of 2

EC DECLARATION OF CONFORMITY

According to Annex II to Council Directive 93/42/EEC of June 14, 1993

Manufacturer: Siemens Medical Solutions USA, Inc.
Division: Molecular Imaging
Address: 2501 N. Barrington Road
Hoffman Estates
IL 60192
Authorized EU Representative: Siemens AG, Medical Solutions Group
Henkestrasse 127
D-91052 Erlangen
Medical device: MI Workstations
Product identification: See Next Page
Classification: Class IIa (According to Rule 10 of Annex IX to
Council Directive 93/42/EEC)

We declare the compliance of the above medical device with the requirements of the Council Directive 93/42/EEC of June 14, 1993 as amended by Council Directive 2007/47/EC. Any modification of the medical device not authorized by us will invalidate this declaration.

The conformity of the full quality assurance system is certified by:

BSI Product Services
Maylands Avenue
Hemel Hempstead
Hertfordshire HP2 4SQ UK

The identification number of the notified body for implementation of the procedure set out in Annex II to the above Directive is 0086.

Place and Date Hoffman Estates March 21, 2010

Name Britta Fünfstück Ron Nolte
(President, Siemens Molecular Imaging) (Vice President RA/QA)

Signature
For conditions of gua



EC Declaration of Conformity – MI Workstations

Page 2 of 2

Product identification:

syngo MI Workplace	10150587
syngo MI Workplace Turbo	10150585
Symbia T Series Processing Wrkplc	10275012
Symbia.net	10520828
Symbia.net Select	10520827

Stability solutions pro R&D Siemens AG, Medical Solutions Group
Höchststrasse 107
D-8137 Munich, Germany

Stability solutions
MI Laboratory
Prepared the above mentioned statement
by the following person:

1. Name of Person: Dr. Prithviraj De, Symbia R&D, Siemens AG, Germany
2. Position: Head of Quality Assurance, Symbia R&D, Siemens AG, Germany
3. Signature:

4. Date: 21. November 2012
5. Place: Munich, Germany
6. Remarks: This declaration is issued under my personal responsibility.

ESI Product Services
Maryland Avenue
Forest Glenwood
Gaithersburg MD 20878 USA

1. Name of Person: Dr. Prithviraj De, Symbia R&D, Siemens AG, Germany
2. Position: Head of Quality Assurance, Symbia R&D, Siemens AG, Germany
3. Signature:

4. Date: 21. November 2012
5. Place: Gaithersburg, Maryland, USA

6. Remarks: This declaration is issued under my personal responsibility.

QRM10094-T-02

Reference: QRM10080-M



ES PROHLÁŠENÍ O SHODĚ

dle přílohy II Směrnice Rady č. 93/42/EHS ze dne 14. června 1993

Výrobce: Siemens Medical Solutions USA, Inc.

Divize: Molecular Imaging (Molekulární zobrazování)

Adresa: 2501 North Barrington Road
Hoffman Estates
Illinois 60192

Pověřený zástupce pro EU: Siemens AG, Medical Solutions Group
Henkestrasse 127
D-91052 Erlangen

Zdravotnický prostředek: MI Workstations
Pracovní stanice molekulárního zobrazování

Identifikace výrobku: viz další stranu

Klasifikace: Třída IIa (dle odst. 10 Přílohy IX Směrnice Rady č. 93/42/EHS)

Prohlašujeme tímto, že výše uvedený zdravotnický prostředek je ve shodě s požadavky Směrnice Rady č. 93/42/EHS ze dne 14. června 1993, ve znění Směrnice rady č. 2007/47/ES. Jakákoli námi neautorizovaná změna na zdravotnickém prostředku ruší platnost tohoto prohlášení.

Shodu systému zajištění celkové jakosti potvrdila certifikační společnost:

BSI Product Services
Maylands Avenue
Hemel Hempstead
Hertfordshire HP2 4SQ UK

Identifikační číslo notifikovaného orgánu pro zavedení postupů stanovených Přílohou II výše uvedené Směrnice je 0086.

Místo a datum: Hoffman Estates, IL 21. března 2010

Jméno: Britta Fünfstück (prezident, Siemens Molecular Imaging) Ron Nolte (viceprezident pro normy a jakost)

Podpis *nečitelný*
Podmínky záruky a odpovědnosti naleznete v našich Všeobecných dodacích podmírkách. *nečitelný*



Identifikace výrobků:

syngo MI Workplace	10150587
syngo MI Workplace Turbo	10150585
Symbia T Series Processing Wrkplc	10275012
Symbia.net	10520828
Symbia.net Selets	10520827

QRMI0094-T-02

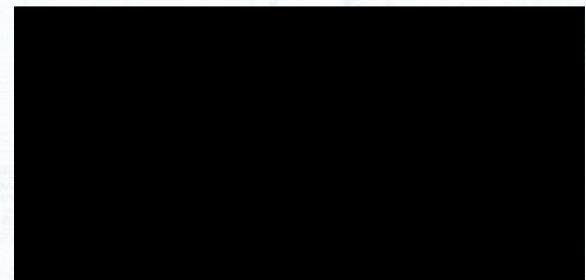
Č.j.: QRMI0080-M



Tlumočnická doložka

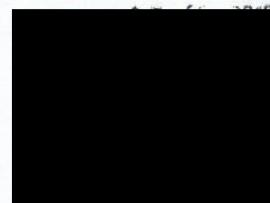
Jako tlumočník jazyka anglického, jmenovaný rozhodnutím Krajského soudu v Brně ze dne 1. 3. 2004, č.j. Spr. 3235/2003, stvrzuji, že překlad souhlasí s textem připojené listiny.
V překladu jsem provedla tyto opravy:
Tlumočnický úkon je zapsán pod pořadovým č. deníku.
Odměnu účtuji za strany.

Dne 13. 4. 2010



Ověření - vidimace

Ověřuji, že tento úplný opis obsahující list souhlasí doslovně s listinou, z níž byl pořízen, která je pravopisem a skladbou stejná.



NOTÁŘSKÝ KONCIPIENT
POVĚŘENÝ NOTÁŘKOU
PRAHA 6, V.P. ČKALOVA 18

Ověření - vidimace

Ověřuji, že tento úplný opis obsahující list souhlasí doslovně s listinou, z níž byl pořízen, která je ověřeným



NOTÁŘSKA TAJEMNICE
POVĚŘENÁ NOTÁŘKOU
PRAHA 6, V.P. ČKALOVA 18



ID	Task Name	Duration	Start	Finish
1	Nemocnice Kyjov - Symbia Intevo 2	0 days	Mon 14.8.17	Mon 14.8.17
2	Realizace projektu	34 days	Mon 14.8.17	Fri 22.9.17
3	Podpis smlouvy	0 days	Mon 14.8.17	Mon 14.8.17
4	Výroba přístroje	16 days	Mon 14.8.17	Mon 4.9.17
5	Objednání přístroje	1 day	Mon 14.8.17	Mon 14.8.17
6	Výroba přístroje	15 days	Tue 15.8.17	Mon 4.9.17
7	Stavební úpravy	16 days	Mon 14.8.17	Mon 4.9.17
8	Úprava podlahy pro instalaci přístroje	16 days	Mon 14.8.17	Mon 4.9.17
9	Nový přístroj Symbia Intevo 2	18 days	Tue 5.9.17	Fri 22.9.17
10	Dodávka a nastěhování technologie	1 day	Tue 5.9.17	Tue 5.9.17
11	Stavební finalizace pracoviště - zapravení transportního otvoru (MSO Kyjov)	2 days	Tue 5.9.17	Wed 6.9.17
12	Montáž technologie	5 days	Wed 6.9.17	Sun 10.9.17
13	Uvedení do provozu	5 days	Mon 11.9.17	Fri 15.9.17
14	Stavební finalizace pracoviště - pokladka lina (Siemens)	2 days	Sat 16.9.17	Sun 17.9.17
15	Testování a měření	2 days	Mon 18.9.17	Tue 19.9.17
16	Instruktaž	3 days	Wed 20.9.17	Fri 22.9.17
17	Celkové předání díla	0 days	Fri 22.9.17	Fri 22.9.17
18	Podpis předávacího protokolu	0 days	Fri 22.9.17	Fri 22.9.17

	Task	Inactive Milestone	Finish-only
	Split	Inactive Summary	External Tasks
	Milestone	Manual Task	External Milestone
	Summary	Duration-only	Progress
	Project Summary	Manual Summary Rollup	Split
	External Tasks	Manual Summary	
	External Mile Task	Start-only	

Project: Kyjov - Symbia Intevo 2++
Date: Mon 14.8.17



FORMULÁŘ PRO UVEDENÍ PODDODAVATELŮ

SEZNAM PŘEDPOKLÁDANÝCH PODDODAVATELŮ

Nemocnice Kyjov - dodávka přístrojů pro radiologické oddělení a oddělení nukleární medicíny - část A

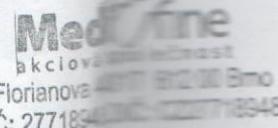
Tento formulář slouží k poskytnutí údajů požadovaných zadavatelem o předpokládaných poddodavatelích, pokud jsou účastníkovi zadávacího řízení známi.

Obchodní firma MEDIFINE a.s.

ÚDAJE O PODDODAVATELÍCH

Požadovaný údaj	Hodnota požadovaného údaje
Obchodní firma poddodavatele	Siemens Healthcare, s.r.o.
Sídlo (celá adresa vč. PSČ)	Siemensova 1, 155 00 Praha 5
Stručný popis poddodávky, služeb nebo prací, které jsou předmětem poddodávky	Přístroj, montáž, uvedení do provozu, instalace, zaškolení a servis.
Finanční objekt poddodávky (v Kč bez DPH)	16.800.000,-Kč

Datum: 4.7.2017

Otisk razítka	
 Medifine akciová společnost Florianova 1173/10 Brno IČ: 27718394	 Podpis osoby oprávněné jednat za účastníka zadávacího řízení

Poznámka

- Účastník zadávacího řízení předloží tento formulář kolikrát je třeba.
- Jiné údaje nebo doklady týkající se poddodavatelů nejsou požadovány, pokud zadávací dokumentace nespecifikuje jinak.
- Účastník zadávacího řízení nepředpokládá využití poddodavatelů, předloží tento formulář s uvedením informace „nepředpokládám využití poddodavatelů“



okupovaného území České republiky

a tedy - využitím tradičního

o městských jednotkách
jiných místních organizacích v městech

Medifine
akciová společnost
Florianova 440/17 612 00 Brno
IČ: 27718948, DIČ: CZ27718948

Medifine
akciová společnost
Florianova 440/17 612 00 Brno
IČ: 27718948, DIČ: CZ27718948

Medifine
akciová společnost
Florianova 440/17 612 00 Brno
IČ: 27718948, DIČ: CZ27718948

odpoledne 20. října 2003