

SHIP TO:  
WAREHOUSE B80806  
V.A. Medical Center  
50 IRVING STREET NW  
WASHINGTON, DC 20422

P.O.# 688-B80806

Qty	Item Description
1	<b>SOMATOM Confidence (20-slice)</b> Whether you strive for advanced treatment techniques or for patient care that is both standardized and personalized - there are significant developments in Radiation Therapy that call for utmost precision. This is why we designed our new dedicated CT scanner for RT: the SOMATOM Confidence(r) RT Pro. Thanks to images that are optimized for both contouring and dose calculation and a workflow that helps reduce sources of error, it brings together standardization and personalization. There is no more compromise between efficiency, patient satisfaction, and clinical outcomes. Face present and future RT challenges with confidence. Blaze a new trail in RT.
1	<b>RT Pro</b> Item includes - Extended Field of View #AWP - HD FoV Pro #AWP - SAFIRE
1	<b>RT Identifier</b>
1	<b>Standard rear cover</b> Sleek touch-control screen on the front side of the gantry only.
1	<b>Cooling System Air</b> Air cooling for the dissipation of heat generated in the gantry.
1	<b>iMAR #AWP</b> The iMAR metal artifact reduction algorithm combines three successful approaches (beam hardening correction, normalized sinogram inpainting and frequency split). This allows to reduce metal artifacts caused by metal implants such as coils, metal screws and plates, dental fillings or implants. iMAR is compatible with extended FoV, the extended CT scale as well as the newest dose reduction feature. Along with the new algorithm comes the simple user interface of iMAR enabling easy reconstruction of clinical images with reduced metal artifacts.
1	<b>DirectDensity</b>

Qty

### Item Description

images, allowing patients to be scanned at any kV setting\*\*, and simplifying physics work for treatment planning.

It includes

- CARE kV, first automated, organ-sensitive voltage setting to improve image quality and contrast-to-noise-ratio
- CARE Child, dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols

\*DirectDensity(tm) reconstruction is designed for use in Radiation Therapy Planning (RTP) only. DirectDensity(tm) reconstruction is not intended to be used for diagnostic imaging.

\*\*As shown by measurements with a Gammex 467 Tissue Characterization Phantom comparing standard reconstruction (kernel D30) and DirectDensity(tm) reconstruction (kernel E30). HU value to relative electron density conversion for the standard reconstruction was based on a two-linear-equations approach with individual calibration for each tube voltage. For DirectDensity(tm) images, a single tube-voltage-independent linear conversion was used.

1

### syngo DE Scan for Single Source#AWP

The syngo Dual Energy Scan for Single Source option offers the possibility to acquire two spiral data sets in sequence at different energies. The results are two data sets with diverse information. All features to reduce patient radiation like dose modulation or iterative reconstruction can be applied.

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### FAST DE Results #AWP

With FAST DE Results you can select Dual Energy applications at the AWP and the results will be sent directly to the PACS for a straight forward Dual Energy workflow.

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### Respiratory Motion Management

- Advanced 4DCT/respiratory gating package that allows for prospective or retrospective acquisitions

- Acquire, review/edit wave form, reconstruct, generate MIP, minIP, and AverageCT, and view 4D movie loop (optional) all on the console

- Compatible with multiple hardware devices including the Anzai Belt and the Varian RGSC, both of which offer complete integration with control console

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### Varian RGSC online interface

Cable to connect to Varian RGSC device.

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### Multi-purpose table & RTP Table Top

Includes as standard:

- 227 kg/500 lb. capacity table
- Siemens RTP flat table top, with standard 14 cm indexing
- 165 cm scan range for RT scans

Offers as optional:

- Concave table top for backup diagnostic scanning

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### FAST CARE Package

Suite of automation and dose-saving tools to streamline workflow and simplify dose management.

Includes:

- FAST Adjust

Qty

**Item Description**

- CARE Profile
- CARE Dashboard
- FAST Planning
- DoseMAP

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**Additional User Manual**

Additional user manual for the above selected CT system.

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**syngo.via RT Bundle (Identifier)**

RT system bundled with syngo.via

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**syngo.via RT Workplace SW**

syngo.via RT Workplace software solution for one user.

syngo.via RT Workplace SW offers Siemens syngo.via cross-modality common graphical user interface, which has the capability to be deployed at desired locations, facilitating ease of access.

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**syngo.via RTiS Advanced Sim #1**

syngo.via RT Image Suite is a dedicated RT software that is designed to make multimodality simulation, image assessment, and contouring easier and better integrated - while also offering capabilities that go beyond the current standard.

The simulation package is tailored for efficient patient marking and basic contouring.

Image support for CT, MR, PET, PET-CT, CBCT, 4D CT, time-resolved CT / MR images (e.g. perfusion).

Direct4D for creation of tMIP, tminIP, AverageCT, phase splitting, 4D contouring, tumor motion analysis, semi-automatic generation of ITV / Mid Ventilation phase (Deformable Registration option recommended).

Automatic rigid image registration with automatic alignment when volumes are loaded.

Multiple contouring tools, incl. auto contouring for organs-at-risk (brain, heart, lungs, liver, kidneys, femoral heads) and parallel contouring on multiple images.

Collaboration tools

Patient marking with reference point & isocenter management and laser steering.

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**syngo.via RTiS Deform Registr. #1**

Deformable Registration option for syngo.via RT Image Suite:

- Deformable Image Registration including contour warping and advanced evaluation of registration (spyglass, deformation vector map, colorwash).

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**syngo.via Project Identifier**

System identifier for syngo.via project

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**Workplace HW**

syngo.via Server-based Workstation HW, tower floorstand configuration.

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**HP Care Pack. 5y WS HW Support**

Prime HW Support for 5 years (for Workstation/Workplace HW ? ML30 Gen9)

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**EIZO MX241W Display**

The EIZO MX 242W is a color widescreen LCD monitor for diagnostic use and clinical review with a resolution of 1920 x 1200 pixels.

**Qty****Item Description**

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**Basic Implementation Package**

This Basic Implementation Package includes installation and integration services for syngo.via dedicated to one modality.

This package includes professional services, such as:

- Installation of the syngo.via server software
- Installation of the syngo.via client software on one clinical user's computer for one user
- Connection to up to 5 DICOM nodes
- Configuration of basic syngo.via workflows and rules
- Installation and integration of one syngo.via client workplace on one syngo MultiModality Workplace.

- Installation of WebViewer integrated license (syngo.via SW version VA30 or higher, country restrictions might apply).

- Installation of the syngo.via WebViewer client application on one Mobile Device or Web Client system if requested by the customer. Ensure that the customer's Web Clients / Mobile Devices fulfill the minimum requirements according to the syngo.via WebViewer Data Sheet. Verification of the syngo.via WebViewer basic functionality

- If applicable: Integration into the Local Area Network of the customer and to Siemens Remote Service over the internet connection plus basic installation service for the syngo.via hardware system at the customer's site.

The Active Directory (AD) of the customer is configured in syngo.via. The AD for integrated user administration already exists at the site.

This option includes professional services, such as:

- Integration of syngo.via into the IT infrastructure using an existing Active Directory, configuration of the AD in syngo.via
- Consultation of the customer's IT administrator for routing/ports and integration of syngo.via in the customer's AD

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**syngo.via local Impl. (Identifier)**

Identifier for professional services completely provided by locally organized resources.

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**Via Workstation Server HW Installation**

Basic installation of the syngo.via Workstation hardware with the operating system at the customer's site by the hardware supplier. Integration into the Local Area Network of the customer and to Siemens Remote Service over internet connection.

Please check that the following information is included in the customer quote: correct and complete delivery location, customer's contact person for implementation planning. See also the questions in the Sales Checklist, which supports you in evaluation of the customer's requirements.

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**Virtual Initial Consultation, syngo.via**

This virtual initial consultation session, up to 4 hrs in duration, is designed to define the clinical customization of syngo.via specific to radiology workflow. Through direct communication with a clinical education specialist, this session will identify and configure site-specific workflow and imaging storage and retrieval parameters. This educational offering must be conducted no more than 4 weeks before the scheduled system turnover event. This consultation session will be scheduled during standard business hours, Monday through Friday. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

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**Initial onsite training 16 hrs syngo.via**

Up to (16) hours of on-site clinical applications training on syngo.via basic navigation and modality specific clinical workflows, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4)users. Training will focus on the use of syngo.via in clinical routine and customization of systems based on workflow needs. This

**Qty****Item Description**

educational offering must be completed (12) months from turnover date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

1

**CT Project Management**

A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemens equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.

1

**CT Standard Rigging and Installation**

This quotation includes standard rigging and installation of your CT new system.

Standard rigging into a room with reasonable access, as determined by Siemens Project Management, during standard working hours (Mon. - Fri./ 8 a.m. to 5 p.m.)

It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents.

Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer.

All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.

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**Initial onsite training 32 hrs**

Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

1

**Initial onsite training 32 hrs GovOffset**

1

**Additional onsite training 32 hours**

Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

1

**teamplay Welcome & Registration Package**

teamplay is a cloud-based network that brings together your imaging modality users, the systems' dose and utilization data, and the users' expertise to help you improve the delivery of care to your patients. Basic features are provided free of charge. Premium features (benchmarking, non-Siemens devices) are provided on a trial basis for three months at no charge, and may be used thereafter on a subscription fee basis.

To register: <http://teamplay.siemens.com/#/institutionRegistration/1>

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**Surge Protective Device (SPD)**

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**Low Contrast CT Phantom & Holder**

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**DoradoNova/Green/CARINAnav/Wall**

Includes: Three movable solid state red crosshair lasers on a computerized rails. CARINAnav Virtual Simulation Patient Laser Marking System compatible with all DORADO laser systems.

Each laser rail contains two Class II 532nm green diode lasers. Six axes adjustment. Final adjustment without removing the cover.

Qty

**Item Description**

Positioning and travel accuracy < 0.3 mm. Each rail contains a microcomputer, an absolute encoder for dual feedback position verification. Auto calibration. On-rail function processing. Variable speed laser movement. Brackets for angular installation.

Bi-directional data communication between control software and the laser rails.

Wilke laser alignment installation and quality assurance phantom with calibrated level and leveling plate.

The CARINAnav system is LAP's state of the art tablet wireless access control unit with a modern graphical touchscreen user interface. The CARINAnav software intuitively displays three point isocenters, skin markers, MLC points, and reference points in an easy to read tabular format. Data is imported via the LAP proprietary file format interface.

Key Features:

In CT Room Touchscreen Tablet PC  
LAP Proprietary File Format Interface  
Wireless BT Communication

Medical Grade Touchscreen Tablet Computer  
10" Touchscreen Interface  
Docking Charger Station w/ Wall Mount Bracket  
Operating System: Windows 8

One year warranty through LAP

Installation by LAP must be included and is sold as a separate line item (LAPLI3).

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**Installation, LAP Laser System**

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**RGSC w/Couch Mount Camera**

(Package includes Siemens parts RSC001002003 and RGA002002001)

Respiratory Gating for Scanners (RGSC) is Varian's solution for respiration-synchronized image acquisition for CT and PET-CT scanners.

Includes RGSC system (workstation unit and real-time unit), wall/ceiling mount, interface, camera, keyboard, mouse, reflector block, phantom, 12 month warranty through Varian and installation by Siemens when sold with Siemens system.

VCD option and training are sold separately.

Requires Siemens interface cable - sold separately.

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**Access Protection**

Scan Protocols are password protected allowing only authorized staff members to access and permanently change protocols

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**Adaptive Dose Shield**

Adaptive Dose Shield for spiral acquisition to eliminate pre- and post-spiral over-radiation.

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**CARE Analytics**

Stand-alone tool, for installation in any PC in the hospital network, allowing evaluation of DICOM dose Structured Reports (DICOM SR)

Qty	Item Description
1	<b>CARE Dashboard</b> Visualization of activated dose reduction features and technologies for each scan range of an examination to analyze and manage the dose to be applied in the scan
1	<b>CARE Dose4D</b> CARE Dose4D delivers the highest possible image quality at the lowest possible dose for patients - maximum detail, minimum dose. Adaptive dose modulation for up to 60% dose reduction
1	<b>CARE Dose Configurator</b> CARE Dose Configurator: Enhancement of Siemens' renowned real-time dose modulation CARE Dose4D, introducing new reference curves for each body region and for each body habitus allowing to adjust the configuration even more precisely to the patient's anatomy.
1	<b>CARE kV</b> CARE kV: First automated, organ-sensitive voltage setting to improve image quality and contrast-to-noise-ratio while optimizing dose and potentially reducing it by up to 60%.
1	<b>CARE Profile</b> CARE Profile: Visualization of the dose distribution along the topogram prior to the scan
1	<b>DICOM SR Dose Reports</b> DICOM structured file allows for the extraction of dose values (CTDIvol, DLP)
1	<b>DoseLogs</b> Whenever a dose limit exceeds the established reference dose levels (Dose Notification and Dose Alert) a report is automatically created on the system, enhancing your ability to track radiation dose.
1	<b>Dose Alert</b> Dose Alert: Dose Alert automatically adds CTDIvol and DLP values depending on z-position (scan axis). The Dose Alert window appears, if either of these cumulative values exceeds a user-defined threshold.
1	<b>Dose Notification</b> Dose Notification: Dose Notification provides the ability to set dose reference values (CTDIvol, DLP) for each scan range. If these reference values are exceeded the Dose Notification window informs the user.
1	<b>FAST Adjust</b> FAST Adjust: assists the user to handle system settings in a fast and easy way by automatically solving of conflicts within user defined limits by one single click on the FAST Adjust button. The limits for scan time and tube current per scan are defined via the Scan Protocol Assistant. FAST Adjust offers an undo functionality to return to previously set values.
1	<b>FAST Scan Assistant</b> FAST Scan Assistant: An intuitive user interface for solving conflicts by changing the scan time, resp. the pitch and/or the maximum tube current manually.
1	<b>NEMA_XR-29 Standard</b> This system is in compliance with NEMA XR-29 Standard Attributes on CT Equipment Related to Dose Optimization and Management, also known as Smart Dose.
1	<b>SureView</b> Provides exceptional image quality at any pitch setting, enabling you to scan faster because you can scan at any pitch without degrading image quality
1	<b>Confidence System Complimentary Biomed Training</b> This educational offering includes system training tuition for 1 clinical engineering professional on the SOMATOM Confidence and the syngo multimodality workstation as applicable. The

**Qty**

**Item Description**

training curriculum depends on and is limited to the system purchased and may include multiple courses including classroom training in USA or an international site, and/or virtual and web-based training. Additional modality basics training may be required as a prerequisite to these courses and must be purchased separately. This system training includes a 15% discount. Travel and lodging are not included. This educational offering must be completed by the later of (12) months from purchase or install end date; if training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund. This forfeiture does not apply to Federal government agencies.

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**VIA Govt Trng in Basic Imp**

Per agreement, credit for initial training in Basic Implementation 14412662

1

**VIA Govt Server HW Install )**

Per agreement, credit for syngo.via hardware installation by 3rd party integrator 14412656

Offset Confidence System Complimentary Biomed Training (

Offset Part CT\_ADD\_32 One Additional Onsite Training 32 hours (

Offset Initial Syngo Onsite 16 Hrs

Offset SY\_VIRINTL\_4 (



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**OPTIONS**

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**OPTIONS**

Qty	Item Description
1	<p><b>Cooling System Water</b></p> <p>Water heat exchanger for the dissipation of heat loss generated in the gantry to an environmentally friendly cooling water circulation system.</p> <p>This optimizes system availability independently of the cooling water flow rate and temperature.</p> <p>System operation temperature 4 - 16 degrees C and 500 - 2500 l/h flow rate.</p>
1	<p><b>Stellant D Dual Pedestal w/Certegra WS</b></p> <p>Stellant D Dual Pedestal with Certegra Workstation NO Informatics, but is Informatics ready. Includes Dual Flow as standard.</p> <p>Includes Stellant D, Dual Head, pedestal mounted injector; Certegra workstation; installation and warranty through Medrad.</p>
1	<p><b>Anzai Respiratory Gating (VI)</b></p> <p>With the Respiratory Gating system, the respiratory data is synchronized with the CT acquisition in order to minimize motion artifacts. The system is comprised of load cell with breast belt and a PC based evaluation console that is connected to the CT system, for capture and storage of a signal representing the patient's respiratory cycle. All components can be placed on a trolley for mobile positioning in the examination room. This Respiratory Gating hardware only works together with the respiratory gating software option integrated in the CT system.</p>

# Detailed Technical Specifications

## Description

Siemens' latest wide bore CT scanner designed specifically to meet the needs of the modern radiation therapy department. 80 cm large bore CT scanner.

Powered by:

- 80 kW generator and 50 MHU STRATON X-ray tube
- Stellar RT Detector: high-end detector equipped with Siemens' most advanced detector technology

Ready for:

- Respiratory Motion Management: provides smooth 4D workflow and complete integration at the CT console with Varian RGSC device
- DirectDensity™\*: enables user to obtain electron densities directly from the CT images, allowing patients to be scanned at any kV setting\*\*, and simplifying physics work for treatment planning
- ADMIRE: Siemens' latest generation iterative reconstruction technique. Ideal for noise reduction for 4D scans and crisper images for bariatric patients
- iMAR metal artifact reduction: the first technique which addresses metal artifacts based on the specific location of metal in the body
- Dual Energy: can potentially aid in better tissue visualization and characterization

\*DirectDensity™ reconstruction is designed for use in Radiation Therapy Planning (RTP) only. DirectDensity™ reconstruction is not intended to be used for diagnostic imaging.

\*\*As shown by measurements with a Gammex 467 Tissue Characterization Phantom comparing standard reconstruction (kernel D30) and DirectDensity™ reconstruction (kernel E30). HU value to relative electron density conversion for the standard reconstruction was based on a two-linear-equations approach with individual calibration for each tube voltage. For DirectDensity™ images, a single tube-voltage-independent linear conversion was used.

FAST DE Results enables a straight forward Dual Energy workflow. You can select dedicated Dual Energy applications at the AWP and they will be sent directly to the PACS without any interaction needed. Available applications for FAST DE Results are:

- DE Monoenergetic (40 keV, 50 keV, 70 keV, 100 keV, 120 keV, 140 keV, 190 keV)
- DE Mixed images

FAST DE Results is as easy as selecting a recon job and will enhance your daily workflow significantly.

This hardware installation service includes the following tasks:

- Unwrapping of server and monitors (if applicable). Consolidation of all packaging material and notification to the Customer that the materials are ready for removal
- Mechanical and electrical connections at site of operation
- Mechanical connections to console and to diagnostic monitors (if applicable)
- Connection to the power supply, to Uninterruptable Power Supply (if applicable)
- Startup of operating system, check status of patches, drivers, service packs and hot fixes etc.

## Description

- Connection of the server and the remote service board (e.g. the HP dash board) to LAN; network configuration of the server and the remote service board
- Configuration of the operating system for two monitors (if delivered by Siemens)
- Test monitors setup (if applicable)
- Handover of the readily installed system to the customer.

Context of the implementation tasks:

The customer provides, as described in the *syngo.via* Data Sheet:

- Access to the location and space for server operation as well as for the monitors (if applicable)
- Server and monitor(s) are on-site of operation. The customer's monitors are accompanied by appropriate cables.
- Electrical power
- LAN access and LAN configuration
- Configuration of the broadband internet access for Siemens Remote Services
- IT Administrator's coordination and support for the mechanical and IT installation.
- The connection of one or two monitors to a workstation-based server does not include monitor calibration.
- Depending on local legal regulations, the monitor installation described here may allow viewing only.

Eaton Surge Protective Device (SPD) Panel, 250kA per phase rating, 277/480VAC Wye, Three Phase (4W+G), Surge Counter, Dimensions 12.05"H x 7.47"W x 6.69" D, Weight: 13.5 lbs, 10 Year Limited Warranty

LAP two-day installation, calibration, and user training of CT-3 Laser Marking system in the Americas and Western Europe. Requires CT room to be prepared prior to on-site arrival of LAP installation team.

BU part: 11154967  
Local part: AS11154967

Features include: connection of max. three connecting ports for sensors, connection of max. three interfaces for external devices.

The system is used for capturing and storing a signal representing the patient's respiratory cycle during a CT acquisition. With the respiratory gating function the respiratory data is synchronized with the spiral CT acquisition data so that the user can freely select the point at which images are retrospectively reconstructed based on the corresponding respiration amplitude. With the respiratory triggering feature, the user selects a point in the respiratory cycle at which sequence images will be acquired.

The connection to the CT gantry is done with the supplied connection cables. The patient gets a breast belt with load cell sensor, which is connected to the evaluation console via a Sensor Port and a Relay Box. The application is started with selection on the CT console. The monitor of the Notebook PC displays of the respiration signal. When an unexpected respiratory waveform appears, the operator can stop Gate Signal output by an intuitive action of the Gate Disable Switch.

### Specification:

The AZ733VI Respiratory Gating consists of:

4pcs of chest/abdominal belts with different sizes

2pcs of load cells with different characteristics

Relay Box

Sensor Port

Gate Disable Switch

Load cell calibration

Laptop PC

Connecting cables

Power: 100-240 V, 50/60 Hz