

Line #	Description	Qty
1	<b>IQon Spectral for CT</b> <b>IQon Spectral CT Configuration</b>	1

The Philips Spectral CT is a first-of-its-kind innovation that allows you to use color within CT images to identify the composition of what you see. Through this quantitative approach you add spectral resolution to your image quality. So you not only get the anatomical information that you are used to with CT, but also uncover the characterization of structures based on material content.

Philips Spectral CT allows for:

- On-demand retrospective data analysis with your traditional workflow and without a special acquisition mode.
- Takes the guesswork out of multi-energy acquisitions - making it easy to use, and allowing for routine spectral use.
- Retrospective spectral analysis made possible through the iPatient platform, so you can experience spectral CT without the need for any special protocols.
- Spectral imaging benefits without complexity and at low dose.

The Philips Spectral CT was built from the ground up for spectral imaging, so now every scan can be spectral on demand.

The IQon Spectral CT family is built from the ground up for spectral imaging. Key features include:

- On-Demand Spectral Results
- NanoPanel Prism Detector
- iPatient
- HyperSight Spectral Reconstruction
- IMR
- iDose4
- Rate Responsive CV Toolkit
- Step & Shoot Complete
- 40 mm z-axis coverage
- AirGlide Gantry with 0.27 second rotation time
- iMRC x-ray Tube with 120 kW generator
- mA range: 10-1000 mA
- 80, 100, 120, 140 kVp tube voltages (Spectral results available on-demand for 120 kVp and 140 kVp acquisitions)
- Eclipse DoseRight Collimator
- Operator console with dual monitor configuration
- Console UPS
- Long table

See IQon Spectral CT product datasheet for descriptions and disclaimers of aforementioned features and capabilities.

## Features

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#### *On-Demand Spectral Results*

On demand retrospective spectral data analysis means that with the IQon Spectral CT, spectral results are available to clinicians anytime, virtually anywhere (spectral results available on-demand for 120 kVp and 140 kVp acquisitions). No special mode is required. Retrospective spectral analysis is made possible through the iPatient platform, so you can experience spectral CT without the need for special protocols. You scan as you normally do and the spectral information is there, at your fingertips, when you need it. Now with the Philips IQon Spectral CT, every scan can be spectral on demand.

#### *NanoPanel Prism Detector*

Through the Philips detector-based spectral approach facilitated by advancements in materials science, this iconic technology allows for:

- On-Demand Spectral Results
- NanoPanel Prism allows for high light output and low cross-talk.
- Top scintillator thickness is optimized for energy separation and low-energy imaging noise, while the bottom scintillator absorbs 99.5% of the high-energy spectrum.
- Simultaneous detection in both time and space
- High light output at low energy

#### *Lung Cancer Screening*

The system enables Low Dose CT Lung Cancer Screening Exam Cards that are compliant with ACR and CMS guidelines for LDCT LCS. These patient-specific low-dose CT lung cancer screening protocols leverage the advanced scanner capabilities such as iDose4, can increase early detection in high-risk patients and help prevent a substantial number of lung cancer related deaths\*.

\*The screening must be performed within the established inclusion criteria of programs/ protocols that have been approved and published by either a governmental body or professional medical society.

- Please refer to clinical literature, including the results of the National Lung Screening Trial (N Engl J Med 2011; 365:395-409) and subsequent literature, for further information.

#### *iPatient*

Philips' iPatient is an advanced platform that delivers focused innovations to facilitate patient-centered imaging, now and in the future. This powerful Windows® 7-based platform will put our customers in control of innovative solutions that drive confidence and consistency through personalized patient-centric workflow, increase the ability to do complex and advanced procedures with ease and efficiency. iPatient removes unnecessary complexity and allows our customers to drive confidence and consistency 24/7, and prepares for future innovations that will help improve the care being delivered to the patient.

#### *ExamCards*

ExamCards are the evolution of the scanning protocol. With ExamCards, the results are planned, not the acquisition as traditionally done in CT; this reduces decision points and clicks, saves time and improves scan-to-scan consistency. ExamCards can include axials, coronals, sagittals, MPRs, MIPS, and other results, all of which will be automatically reconstructed and can be sent off to where they will be read with no additional work required by the operator.

#### *iMRC X-ray Tube with 120 kW generator*

- Segmented anode and direct liquid cooling allow high-throughput scanning
- Smart Focal Spot doubles the number of projections for high image quality
- *Spiral Groove Bearing* Precise anode rotation stability for virtually motion-free, focal spot for high image quality

#### *AirGlide Gantry*

- Floats on a frictionless cushion of air for high-speed stability
- 0.27 second rotation time

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#### *Eclipse DoseRight Collimator*

Helps manage delivered dose by eliminating start of scan and end of scan radiation not contributing to image formation in spiral scanning.

### **Reconstruction**

#### *HyperSight Spectral reconstructor*

IQon Spectral CT leverages the computational power behind IMR to achieve fast creation of spectral results. This reconstruction engine enables conventional image reconstruction in less than 3 minutes with IMR.

#### *IMR\**

Iterative Model Reconstruction (IMR) sets a new direction in CT image quality with virtually noise-free images and industry-leading low-contrast resolution. Moreover, for the first time physicians are also able to simultaneously combine image quality improvements on conventional images with significantly lower doses.\*\* This improvement is a breakthrough made possible through Philips first iterative reconstruction built on knowledge-based models.

\* Only applies to conventional images.

\*\* In clinical practice, the use of IMR may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. Lower image noise, improved spatial resolution, improved low-contrast detectability, and/or dose reduction, were tested using reference body protocols. All metrics were tested on phantoms. Dose reduction assessments were performed using 0.8 mm slices and tested on the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using human observers. Data on file.

#### *iDose4*

iDose4 improves image quality† through artifact prevention and increased spatial resolution at low dose. The design seamlessly integrates into your CT department, and provides you the look and feel of conventional, higher-dose images without long processing times.

† Improved image quality is defined by improvements in spatial resolution and/or noise reduction as measured in phantom studies.

#### *ConeBeam Reconstruction Algorithm – COBRA*

Philips' patented Cone Beam Reconstruction Algorithm (COBRA) enables true three-dimensional data acquisition and reconstruction in helical scanning.

#### *Fast Preview*

Display real-time 512 × 512 matrix image reconstruction and 5 mm × 5 mm contiguous slice display with helical acquisition or off-line reconstruction. Images can be modified for window width and level, zoom, and pan prior to larger matrix reconstruction at the end of the acquisition.

### **Clinical Enhancements**

#### *Spectral CT Viewer*

The Spectral CT Viewer utilizes the spectral results and extended data that is produced by the scanner to provide advanced, user-oriented imaging tools.

#### *Step & Shoot Complete*

Step & Shoot Complete enables low-dose, prospectively ECG-triggered, axial thoracic imaging. Step & Shoot Complete allows gated, submillimeter, isotropic imaging of the entire thorax (up to 50 cm transaxial field of view), including the coronary arteries. Arrhythmias are managed in real-

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		time using proprietary, prospective-detection algorithms to pause acquisition during unstable heart rhythms.	
		<i>Rate Responsive Toolkit</i> Enables cardiac imaging and includes an ECG monitor, Retrospective Tagging, Prospective Gating, the Cardiac Viewer, Heartbeat-CS, and CT Reporting. Uses Philips' exclusive Adaptive Multicycle Reconstruction algorithm to enhance temporal resolution — as low as 34 ms. Includes automatic arrhythmia detection and management.	
		<i>0.27 Second Rotation</i> 1.27 second 360° rotation provides outstanding temporal resolution in advanced clinical applications such as coronary artery imaging, cardiac perfusion and other high-speed, motion-free imaging. The higher speed especially benefits prospective gating and Step & Shoot Cardiac.	
		<i>DoseRight Cardiac</i> ECG-triggered dose modulation reduces tube current up to 80% during acquisition of non-desired phases (estimated overall dose reduction of ~45% for single-phase, end-diastolic imaging). For example, only one phase may be required for coronary CTA, and the system will reduce the mA during the other portions of the acquisition.	
		<i>Retrospective Tagging</i> Spiral Retrospective Tagging allows the CT system to acquire a volume of data while the patient's ECG is recorded. The acquired data is "tagged" using AccuTag and reconstructed retrospectively at any desired phase of the cardiac cycle. This phase selection is accomplished using the Philips' patented Beat- to-Beat Variable Delay Algorithm, which automatically finds the consistent phase for cardiac CT imaging.	
		<i>Prospective Gating</i> Prospectively triggers axial scans using Philips' patented Beat-to-Beat Variable Delay Algorithm for advanced cardiac imaging.	
		<i>Integrated ECG Monitor</i> Philips' advanced ECG monitor is used for gated cardiac scans. Integrated design reduces the need for an additional ECG monitor and stand in the scan room.	
		<i>COBRA Reconstruction (COBRA Cardiac)</i> Philips' patented Cone Beam Reconstruction Algorithm (COBRA) enables true three-dimensional data acquisition and reconstruction in both axial and helical cardiac scanning.	
		<i>Cardiac Viewer</i> A comprehensive cardiac review application that allows quick visualization of one or more cardiac phases, synchronization of multiple cardiac phases with interactive slab-MIP tools for review purposes, cine mode for cardiac axes views and a calculation of End Systolic Volume (ESV), End Diastolic Volume (EDV), Cardiac Output (CO), and Ejection Fraction (EF) for ventricular functional assessment.	
		<i>Calcium Scoring</i> Provides Agatston, Volume, and Mass scores. Incorporates a database of greater than 5,000 asymptomatic multislice calcium scoring scans.	
		<i>CT Reporting</i> Provides capabilities for editable paper, print, and electronic clinical reports; including display of	

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key images and results. Reports are available for paper or electronic distribution to referring physicians, patients, or for medical records.

### **Dose Management**

Philips' DoseWise philosophy is a set of techniques, programs, and practices that allows optimal image quality, while protecting people in X-ray environments. The IQon Spectral CT platform employs a number of features that help provide dose efficiency.

#### *NEMA XR-29 Compliance*

This system complies with the NEMA XR-29-2013 Standard Attributes on CT Equipment Related to Dose Optimization and Management. The standard includes a group of CT attributes that contribute to or help perform optimization/management of doses of ionizing radiation while still enabling the system to deliver the diagnostic image quality needed by the physician. It encompasses: DICOM Radiation Dose Structured Reporting, Dose Check Feature (Dose Notification and Dose Alerts), Automatic Exposure Control (Dose Modulation) and Reference Adult & Pediatric Protocols.

#### *NEMA XR-25 (DoseCheck)*

Supports an operator notification in each ExamCard that will be shown if an acquisition is planned that exceeds a specified CTDIvol or DLP. In addition, an alert is available such that, if an acquisition is planned and the total exam will exceed a specified CTDIvol or DLP, the operator will be required to enter his or her name and (if configured) a password to proceed, or the operator can adjust the scan parameters. Compliant with NEMA XR-25 and XR-29.

#### *DICOM Structured Report for Dose (DICOM SR)*

Dose SR complies with the IEC, DICOM PS and IHE standards for dose reporting. The report includes CTDIvol and DLP dose values. These can be transferred to external systems such as HIS/RIS, PACS, or dose registries.

#### *Locking Protocols*

Prevents unapproved modification of scanning protocols through password-protection.

#### *Dedicated Pediatric Protocols*

Developed in collaboration with top children's hospitals, age-based and weight-based infant and pediatric protocols enhance image quality at low dose.

#### *DoseRight ACS (Automatic Current Selection)*

Personalizes the dose for each patient based on the planned scan by suggesting the lowest mAs settings to maintain consistent image quality at low dose throughout the scan.

#### *DoseRight Z-DOM (Longitudinal Dose Modulation)*

Automatically controls the tube current, adjusting the signal along the length of the scan, increasing the signal over regions of higher attenuation (e.g., shoulders, pelvis), and decreasing the signal over regions of less attenuation (e.g., neck, legs).

#### *DoseRight 3D-DOM (Three-dimensional Dose Modulation)*

3D-DOM combines angular and longitudinal patient information to modulate dose in three dimensions (x-y-z-axis). It incorporates modulation of tube current-time product (mAs) according to changes in individual patient's size and shape in the transverse (x-y-axis; angular) direction during helical scans, in addition changes in the craniocaudal or caudocranial (z-axis; longitudinal) direction, as the tube rotates.

#### *Dose Displays*

- Volume Computed Tomography Dose Index (CTDIvol)

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- Dose-Length Product (DLP)
- Dose Efficiency Warning

## Scan and Image Acquisition

### *Scan Ruler*

Provides a visual, highly interactive view of the entire procedure that allows 1-click updates to important study events.

### *Spiral Scanning*

Multiple contiguous slices acquired simultaneously with continuous table movement during scans allowing for multiple, bidirectional acquisitions.

### *Axial Scanning*

Multiple-slice scan with incremental table movement between scans.

### *Smart Focal Spot*

Doubles the in-plane and longitudinal data sampling density from the detectors effectively doubling the number of detectors and provides high spatial resolution in axial and spiral scanning.

### *Test Injection Bolus Timing*

Establishes the appropriate contrast injection delay time using a test injection. A real-time graph of the enhancement in a selected region of interest is displayed. The delay time is then selected to provide ideal peak contrast enhancement and reduced contrast usage.

### *Bolus Tracking*

An automated injection planning technique that permits a user to monitor actual contrast enhancement and to initiate scanning at a pre-determined enhancement level. Combine with SAS for full automation.

### *Spiral Auto Start (SAS)*

Spiral Auto Start allows the injector to communicate with the scanner. This allows the technologist to monitor the contrast injection and to start the scan (with a predetermined delay) while in the scan room.

### NOTE:

- Costs to upgrade an approved injector and any cabling is the responsibility of the user.
- Contact Philips to verify compatibility with a specific injector.

## Image Management, Storage, and Filming

DICOM 3.0-compliant image format. Lossless image compression/decompression is used during image storage/retrieval to/from all local storage areas. Images can be auto-stored to selected archive media.

### *DICOM DVD/CD writer*

Stores DICOM images and associated image viewing software on DVD/CD media. Images on these DVD/CDs can be viewed and manipulated on PCs meeting the minimum specifications. Ideally suited for individual result storage and referring physician support.

### *Filming*

Allows the user to set up and store filming parameters. Pre-stored protocols can be set to include auto-filming. The operator can film immediately after each image, at the end of a series, or after the end of a study, and review images before printing. The operator can also automatically film the study at three different windows and incorporate Combine Images functionality to manage large datasets. Basic monochrome and color DICOM print capability are supported.

### *Networking*

Supports 10/100/1000 Mbps (10/100/1000 BaseT) networks. For optimal performance, Philips recommends a minimum 100 Mbps network (1 Gbps preferred) and for the CT network to be segmented from the rest of the hospital network.

### *DICOM Connectivity*

Full implementation of the DICOM 3.0 communications protocol allows connectivity to DICOM 3.0 compliant scanners, workstations, and printers; supports IHE requirements for DICOM

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Connectivity.

### **Operator Console, Patient Handling, and Setup**

The operators' console includes the necessary hardware to use the scanner including host computer, cabinets, dual monitor configuration, and control box. The system provides applications that assist clinicians to improve workflow and planning as well as post processing analysis and review to help you quickly gain the desired view. All of these combine in a graphical interface that allows you to easily execute scans and analyze images.

#### *Automatic Scan*

Enables automatic execution of pre-planned studies, reconstruction, background image archiving to local or remote storage devices, without operator intervention.

#### *Gantry Control Panels*

Touchscreen interface with integrated ECG display. Audio notification and visual countdown 10 seconds before X-ray On so that operator and staff can exit room before X-ray On.

#### *Breathing Lights and Patient Aperture Panel*

Visual display of breathing instructions coordinated with recorded breath hold instructions (Auto Voice) to improve the patient's experience and compliance.

#### *Intercom System and Autovoice*

The intercom system provides two-way communication between the scan room and the operator console. Additionally, a standard set of commands for patient communication before, during and after scanning is available in several pre-selected languages. Customized messages can also be created.

#### *Dual Surview Planning*

Provides flexibility in exam planning with both anteroposterior and lateral survivals.

#### *Automatic Procedure Selection*

Maps the procedure selection from the HIS-RIS with individual scan protocol(s) simplifying the scanning process. Only the most relevant scan protocol(s) for any requested procedure are shown to the user, so that only the desired scanning procedures are performed. This is especially useful for infrequent users of the CT scanner.

#### *Table Accessories*

Patient restraint kit, table extension, standard head holder, table pad, IV Pole, arm rests, cushions, and pads.

#### *Load and Unload Foot Pedals*

Load and Unload foot pedals allow the operator to move the patient couch to the load or unload position using a foot pedal thus improving patient handling efficiency by freeing the operator's hands to prepare, restrain, or release the patient.

### **Siting information**

*Power Requirements* 380-480 VAC

50/60 Hz

225 kVA supply (175 kVA momentary) Three-phase distribution source

*Note: Windows is a registered trademark of Microsoft Corporation in the United States and other countries.*

### **Enhanced System Warranty Coverage:**

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The Philips IQon Spectral CT System will get the following enhanced service coverage for a period of twelve (12) months after completion of installation or availability for patient use, whichever occurs first.

- Extended service coverage hours, Monday - Friday, 8am to 9pm
- Flexible Planned Maintenance scheduling from Monday - Friday, 7am to 12am and Saturday, 8am to 5pm
- Onsite labor response of 2 hours\*
- Expedited parts delivery on same day\*

\* Please note that response and delivery times are dependent on local factors and conditions

#### Ongoing Clinical Support:

- Continuing Clinical Education equal to two 16-hour onsite visits. This clinical education must be scheduled by the customer and is recommended as one visit between months 13 and 24 and one visit between months 25 and 36 after installation. Terms and conditions of the Philips Clinical Education Flex Account apply.

#### Clinical Education Program for IQon Spectral CT System:

**Essentials OffSite Education:** Philips will provide up to two (2) lead technologists, as selected by customer, with in-depth lectures covering basic clinical applications, Philips-specific imaging techniques, protocol optimization and scan parameters. An IQon CT "system emulator" is used during the lab sessions to simulate all basic scanning operations without x-ray exposure. Students will graduate from this class with an 80% understanding of the base system functionality. The remaining 20% is covered during the Handover OnSite experience. This twenty-eight (28) hour class is located in Cleveland, Ohio, and is scheduled based on your equipment configuration, geography, and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. This class is a prerequisite to your equipment handover OnSite Education, and should be attended no earlier than two weeks prior to system installation. ASRT CEU credits may be available for each participant that meets the Guidelines provided by Philips during the scheduling process. Travel and lodging are not included, but may be purchased through Philips. **It is highly recommended that 989801292078 (CT Full Travel Pkg OffSite) is purchased with all OffSite courses.**

**Handover OnSite Education:** This twenty-eight (28) hour training event will fine tune and expand upon knowledge learned during the Essentials OffSite with focus on maximizing scanning techniques and protocols. This session is to be attended by the same two (2) technologists from Essentials OffSite, and up to two (2) more of your dedicated CT Technologists, preferably from night or weekend shifts if necessary. ASRT CEU credits may be available for each participant that meets Philips Guidelines. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.



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**Follow-Up OnSite Education:** Clinical Education Specialists will provide twenty-eight (28) hours of follow-up CT OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases.

**Follow-Up OnSite Education:** Clinical Education Specialists will provide twenty-four (24) hours of follow-up CT OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

**Follow-Up OnSite Education:** Clinical Education Specialist will provide twenty-four (24) hours of additional training on IMR and/or Advanced CT OnSite for up to four (4) students, as selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases. Please read Training Guidelines for more information, which will be provided to you during the scheduling process. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

**NOTE: If the customer is planning to do cardiac scanning or create a cardiac program. Additional Clinical Education is highly recommended, add in Qty 2: Part# "989801292425 CT Addl Cardiac Offsite 28hr" and Qty 2: "Part# "989801292450 CT Cardiac Additional OnSite 24hr". Also recommend a "Full travel package" be added for each offsite session.**

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

Ref# 618619620621-20140404

2		<b>Bayer Stellant DH/DF CT Inj w/CW-Med OCS</b>	1
		Bayer Healthcare Stellant Dual Head/Dual Flow CT Injector w/ Certegra Workstation - Medium OCS:	

Bayer Catalog # SCT322PH:

- 3032458 Stellant Dual Head Injector with Console Display, informatics ready.
- 3016426 Medium OCS (850mm)
- 3012559 Dual Flow
- 3016436 Ceiling Plate
- 3010435 ISI-700 Interface
- INST SCT Installation

The Stellant Dual Head/Dual Flow CT Injection System is comprised of the injector head located in the screening room and a Console Display Station is typically located in the control room. The two components are connected by a communication link.

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Control console system with Dual 200 ml variable speed injector head with automatic docking, Auto Advance and Auto retract. Includes touch screen display input, 75 ft. cable to control console, injector head overhead mount, operation manual and two 200 ml syringe kits.

Philips representatives are responsible for the unpacking, assembly and installation of the CT Injector equipment. Bayer will be available for technical assistance, by phone: call (412) 767-2400. Bayer will also provide an operational checkout, final calibration, in-service of the equipment and initial applications training. Please contact the local Bayer sales office at least two weeks in advance to schedule installation. Call (412) 767-2400.

Philips does not warranty the Bayer Stellant CT Injector System but will pass on the Bayer warranty. Bayer warrants each new injector system; including control unit, display control, remote panel and injector head sold in North America and Europe against defects in material and workmanship, under proper, normal use and service for a period of one year (12 months) from the date of installation. There will be no charge for any action deemed necessary by Bayer, including parts, travel, or labor to fulfill the terms of the warranty, during normal business hours (8:30am to 5:00pm, local time, Monday through Friday, except holidays).

3	<b>IQon ISP Entitlement</b>	<b>1</b>
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A Philips Clinical Workflow Adoption Consultant will provide twenty-four (24) hours of IntelliSpace Portal for Technologists and /or Radiologists over 3 consecutive days. Philips will deliver customized training tailored to your implementation and workflow. Philips requires no more than 5 attendees per session to maximize the educational value.

Attendee(s) are responsible for adhering to the agreed upon clinical education guidelines. ASRT CEU credits may be available for each participant who meets ASRT criteria.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

4	<b>24 Hours of Additional OnSite Clinical Training</b>	<b>2</b>
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Clinical Education Specialist will provide twenty-four (24) hours of tailored CT OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. Education expires one (1) year from the earlier of equipment delivery date or purchase date.

5	<b>Bariatric Table</b>	<b>1</b>
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The Bariatric Patient Support is designed to meet the CT imaging needs of the growing bariatric population. Allowing for patient loads of up to 295kg (650 lbs.), the Bariatric Patient Support provides CT imaging access to a larger patient population than current offerings.

Patient Support Specifications:

*Longitudinal motion:*

Manual Stroke: 1890 mm

Scannable range: 1750 mm

Acquisition Speed: 0.5 to 185 mm/sec (iCT)

0.5 to 143 mm/sec (Ingenuity CT, Brilliance 40 and 64)

0.5 to 100 mm/sec (Brilliance 6, 10, 16, Big Bore)

Load/Unload Speed: 0.5 to 185 mm/sec (iCT, Ingenuity CT, Brilliance 64)

Position accuracy: ±0.25 mm

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		<i>Vertical motion:</i> Range: 578 to 1028 mm; 1.0 mm inc. 645 to 1065mm; 1.0 mm inc. (iCT)	
		<i>Table load capacity:</i> 295 kg (650 lbs)	
		<i>Floating tabletop:</i> Carbon-fiber table top with foot pedal and handrail control for easy positioning and quick release.	
		<p>The Bariatric Table includes the Radiology Flat Top Kit. This kit, comprised of a wide accessory flat top, wide mattress pad and extra long patient restraint straps, provides additional comfort and security for patients. A quality assurance phantom holder fitted for the flat top is also included. Note: This flat top is not qualified for oncology radiation therapy usage and cannot be used to support the iCT calibration phantom</p>	
6		<b>Operator's Manual - English</b>	1
7		<b>Keyboard Language - English</b>	1
8		<b>Operator's Chair</b>	1
		One (1) standard height operator's chair.	
9		<b>Adv. Brain Perfusion License</b>	1
		<p>Philips' Brain Perfusion package differentiates areas of increased blood volume and decreased blood flow and presents this information in a summary map. The summary maps may help clinicians distinguish between still-viable and non-viable infarcted tissue. Philips Advanced Brain Perfusion provides motion correction, noise reduction and improved ease-of-use to maximize efficiency.</p> <p>Using serial CT scans obtained with intravenous injection of contrast, the Brain Perfusion package derives perfusion information from the time-density curves based on the uptake of injected contrast material and subsequent tissue enhancement (or lack of). The package generates quantitative color maps of cerebral blood flow (CBF), cerebral blood volume (CBV), mean transit time (MTT) and time-to-peak (TTP), in addition to the summary maps.</p>	
10		<b>Jog Scan</b>	1
		<p>This Philips-exclusive feature provides up to 160 mm (iCT TVI or iCT), 80 mm (iCT SP, Ingenuity CT, Ingenuity Core, Ingenuity Core128, Brilliance CT 64-channel, or Brilliance CT 40-channel), or 48mm (Ingenuity Flex32, Ingenuity Flex, Brilliance CT 16-, 10- or 6-slice ) of imaging area for perfusion studies. An axial scan is taken in one location, the couch translates to another location within a few seconds, and another axial scan is taken. These multiple datasets are registered automatically to provide the extended coverage. Combined with Philips advanced Brain Perfusion with summary maps, the Jog Scan application can position CT as the modality of choice for acute stroke evaluation, providing unprecedented functional information over the functionally significant area of the brain.</p>	
11		<b>Isolation Trans 380-500VAC</b>	1

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The isolation transformer may be used in conjunction with a Full System UPS to provide Voltage correction or may be used stand-alone when an isolated ground is not present or when a Wye supply is not available. This 225kVa (50/60Hz) rated isolation transformer required incoming voltages of 380/400/415/460/480/500VAC.

Input voltage: 380/400/415/460/480/500VAC - 60/50 Hz.

*Refer to Planning Reference Documentation for more details.*

12	<b>Trade in Allowance</b>	<b>1</b>
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Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in.

Product: GE LIGHTSPEED VCT 64-SLICE  
Serial Number: 0001098211  
Manufacturer: GE MEDICAL SYSTEMS CAPITAL

Trade-In authorization number: 100175

De-install Date: Not later than 180 days after receipt of Order

Customer will be trading-in equipment that is described on the attached System Disclosure Form (the "Trade-In"), which Trade-In the parties agree (i) will be removed on the De-install Date and (ii) is currently in the condition as represented on the System Disclosure Form. In addition, the parties agree as follows:

1. Customer represents and warrants that Customer has good and marketable title to the Trade-In as of the date of this Quotation and will have good and marketable title when Philips removes the Trade-In from Customer's site (the "Removal Date");
2. Title to the Trade-In shall pass from Customer to Philips on the Removal Date, unless otherwise agreed by Philips and the Customer;
3. Notwithstanding anything to the contrary in any Business Associate Addendum, Customer represents and warrants that as of the Removal Date all Protected Health Information will have been de-identified or removed from the Trade-In;
4. Philips may test and inspect the Trade-In prior to de-installation. If the condition of the Trade-In is not substantially the same on the Removal Date (ordinary wear and tear excepted) as it is identified on the System Disclosure Form, then Philips may reduce the price quoted for the Trade-In;
5. If the removal date is delayed until after the De-Install Date, unless Philips causes the delay, then Philips may reduce the price quoted for the Trade-In by six percent (6%) per month.
6. Philips is responsible for normal de-installation costs of the Trade-In.
7. The trade-in value will not include costs associated for any facility modifications and/or rigging required for de-installation and must be accounted for separately.
8. Customer is responsible for all plumbing necessary to properly drain coolant from chiller system and cap the lines.
9. Prior to the Removal Date, Customer shall remove from the room all equipment that is not being de-installed.

## OPTIONS

Line #	Description	Qty
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1	<b>CT Essentials Common 2 days</b>	<b>1</b>
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Course Number: CT3030

Course Title: CT Essentials Common

Course Length/Location: 2 days Instructor-led at Cleveland Training Center

### DESCRIPTION:

This course provides the engineer with the material required for an FSE to safely work on the common components of the Ingenuity-Brilliance & iCT-IQon Family of CT scanners. The CT Essentials Common course will be a prerequisite to the CT Extended Courses.

This course completes the CT Essentials training which prepares the FSE to service the common components of the Ingenuity-Brilliance and iCT-IQon Families of systems by providing the knowledge and the skills required to safely install, calibrate and repair the systems to the designated Field Replaceable Units.

A standard of 2 students per machine per lab will be assumed, with a maximum of 3 as required.

### PREREQUISITES:

All of the courses listed:

- FC9001- Business Essentials
- FC9002 – Safety
- FC9003 – Imaging Systems Safety
- FC9008 -- DICOM
- FC9017 – Networking Fundamentals
- FC9018 – Advanced Networking
- FC9055 – Service Tools
- CT9009 – Laser Safety

### COURSE OBJECTIVES:

Upon successful completion of the course, the learner will be able to:

- Gantry Programming
  - Identify the software employed for the Gantry
  - Describe the basic Gantry software functions
  - Identify the major utilities used
  - Describe the Gantry CPM software load procedure
  - Describe Baseboard Programming [J-tagging]:
    - With Xilinx
    - With Altera
    - Using CAN
- CIRS
  - Discuss the reconstruction process
  - Identify the CIRS Hardware components
  - Demonstrate an ability to remove and replace components of the CIRS
  - Demonstrate the ability to execute CIRS related diagnostics
- Couch
  - Identify the differences between the standard, bariatric and extended couch design specifications
  - Identify the couch major components and their function
  - Describe the power distribution between the couch sub components

## OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
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- Demonstrate an ability to calibrate the vertical and horizontal positions of the couch
- Discuss how the couch is safely serviced

\* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH PURCHASE OF SUPPORT OR ASSIST AGREEMENT.) Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training

2

**CT3032 Essentials iCT/IQon** **1**

Course Number: CT3032

Course Title: CT Essentials iCT-IQon

Course Length/Location: 8 days Instructor-led at Cleveland Training Center

### DESCRIPTION:

This course provides the engineer with the material required for an FSE to safely work on the iCT-IQon Family of CT scanners. The CT Essentials course will be a prerequisite to the CT Extended iCT-IQon Course.

This course prepares the FSE to service the iCT Family systems & the IQon Spectral CT by providing the knowledge and the skills required to safely install, calibrate and repair the systems to the designated Field Replaceable Units.

In addition, the FSE learns the version 4.x "iPatient" system operation, software installation, configuration and calibration processes as well as the interfaces and access methods for Service Tools.

A standard of 2 students per machine per lab will be assumed, with a maximum of 3 as required.

### PREREQUISITES:

All of the courses listed:

- FC9001- Business Essentials
- FC9002 – Safety
- FC9003 – Imaging Systems Safety
- FC9008 -- DICOM
- FC9017 – Network Fundamentals
- FC9018 – Advanced Networking

## OPTIONS

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>• FC9055 – Service Tools</li> <li>• CT9009 – Laser Safety</li> </ul> <p>COURSE OBJECTIVES:</p> <p>Upon successful completion of the course, the learner will be able to:</p> <ul style="list-style-type: none"> <li>• System Access <ul style="list-style-type: none"> <li>- Describe the capabilities and key sub-systems of the iCT and IQon systems</li> <li>- Demonstrate working safely in and around the iCT and IQon systems</li> <li>- Describe removal, replacement and alignment of the system covers</li> </ul> </li> <li>• Operations <ul style="list-style-type: none"> <li>- Perform key scanner operations</li> <li>- Perform key image operations</li> </ul> </li> <li>• Operator's Interface <ul style="list-style-type: none"> <li>- Identify components related to the Operator Interface</li> <li>- Demonstrate an ability to replace and calibrate components related to the Operator's Interface</li> </ul> </li> <li>• Power Distribution <ul style="list-style-type: none"> <li>- Follow Installation instructions to connect the power distribution components of the system</li> <li>- Follow the prescribed safety methods to avoid electrical and ESD hazards pertaining to power distribution</li> <li>- Physically identify Field Replaceable Unit components of the power distribution and follow the procedures to remove and replace them</li> </ul> </li> <li>• Software <ul style="list-style-type: none"> <li>- Describe the overall software installation process</li> <li>- Describe and perform common pre-installation tasks</li> <li>- Demonstrate an ability to program the Common Processor Modules to comply with the system's software version</li> <li>- Perform software configuration tasks</li> </ul> </li> <li>• Gantry States <ul style="list-style-type: none"> <li>- Define the Gantry States</li> <li>- Describe the relationship of the Gantry States to the key functions of the scanner</li> </ul> </li> <li>• Communications <ul style="list-style-type: none"> <li>- Describe the methods of communication</li> <li>- Identify communication-related hardware</li> <li>- Demonstrate the procedures to remove, replace and align the Field Replaceable Units related to communications</li> </ul> </li> <li>• Slip rings <ul style="list-style-type: none"> <li>- Describe communication functions related to the slip rings</li> <li>- Describe data path functions related to the slip ring</li> <li>- Demonstrate the procedures to remove, replace and align the Field Replaceable Units related to the slip rings</li> </ul> </li> <li>• Service Tools <ul style="list-style-type: none"> <li>- Demonstrate accessing and navigating the Philips Service Tools</li> <li>- Describe the Actionable Tool Panel</li> </ul> </li> <li>• TDMS (Tiled Data Measurement System) <ul style="list-style-type: none"> <li>- Describe components related to the TDMS</li> <li>- Physically identify Field Replaceable Unit components related to the Data Measurement System and follow the procedures to replace them</li> </ul> </li> <li>• X-Segment <ul style="list-style-type: none"> <li>- Demonstrate the ability to identify the major X-Segment components.</li> <li>- Demonstrate the ability to replace major components of the X-Segment system.</li> <li>- Describe the functions of the major components of the X-Segment system.</li> <li>- Describe the power distribution to the X-Segment system including the soft start process.</li> </ul> </li> <li>• Gantry Angulation</li> </ul>	

## OPTIONS

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>- Describe the gantry angulation system</li> <li>- Calibrate the gantry angulation system</li> <li>- Demonstrate the procedures to remove, replace and align the Field Replaceable Unit components related to the Gantry Angulation system</li> <li>• Rotor Motion <ul style="list-style-type: none"> <li>- Physically identify Field Replaceable Unit components related to rotor motion and follow the procedures to remove, replace and align them</li> </ul> </li> <li>• Beam Path/Collimator <ul style="list-style-type: none"> <li>- Physically identify Field Replaceable Unit components of the beam path and follow the procedures to remove, replace and align them</li> <li>- Perform calibrations related to the collimator to ensure accurate CT image quality</li> </ul> </li> <li>• X-ray Tube Change &amp; Image Calibration <ul style="list-style-type: none"> <li>- Demonstrate an ability to follow the documented procedures to remove and replace Field Replaceable Units of the X-ray Tube and its cooling system</li> <li>- Perform Image Calibration</li> </ul> </li> <li>• Image Quality <ul style="list-style-type: none"> <li>- Perform Image Calibration on the scanner</li> <li>- Perform the constancy tests</li> <li>- Perform acceptance testing</li> </ul> </li> <li>• Preventive Maintenance <ul style="list-style-type: none"> <li>- Locate the PM manual and identify the procedures and the quarters in which they are required to be completed</li> <li>- Demonstrate the ability to perform Preventive Maintenance on the scanner system</li> </ul> </li> </ul>	

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IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training



## OPTIONS

Line #	Description	Qty
	<p>This course is available on the Philips Learning Center (PLC) website at <a href="http://theonlinelearningcenter.com">http://theonlinelearningcenter.com</a></p> <p>All of the Academy e-learning courses are located on this site in the Course Catalog under the Academy folder and Modality sub-folder.</p> <p>Course Number: CT9011  System Codes: NA  Course Title: Introduction to iDose4  Course Length: 60 minutes  Delivery Method(s):  Modality: CT  Location: Adobe Connect  Target Audience: All CT Service Engineers</p> <p>DESCRIPTION:</p> <ul style="list-style-type: none"> <li>This class will provide all CT service engineers with an introduction to iDose4.</li> </ul> <p>PREREQUISITES:</p> <ul style="list-style-type: none"> <li>None</li> </ul> <p>COURSE OBJECTIVES:</p> <p>Upon successful completion of the Ingenuity CT course the learner will be able to:</p> <ul style="list-style-type: none"> <li>Define iDose4 and explain how it works</li> </ul> <p>* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH PURCHASE OF A PHILIPS RIGHTFIT SERVICE AGREEMENT.) Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.</p> <p>IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:</p> <ol style="list-style-type: none"> <li>1. Trainee must meet all prerequisites</li> <li>2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)</li> <li>3. Customer must sign Philips Nondisclosure statement</li> <li>4. Trainee must sign Philips Nondisclosure statement</li> <li>5. Customer must sign Philips terms and conditions of training</li> </ol> <p>Revision: 20090707</p>	

Line #	Description	Qty
1	<b>Number of Concurrent Users</b> <b>NA</b>	<b>5</b>

The Resource Based License (RBL) is a flexible licensing offering, in which the customer can choose a granular number of concurrent advanced visualization users based on the specific needs.

IntelliSpace is designed to create smart clinical integration that often leads to enhanced patient outcomes. It is a thin-client applications server (or workstation deployed for single users) that turns virtually any PC that meets the minimal requirements into an advanced multimodality imaging system workspace that can support radiology, cardiology, oncology, neurology, orthopedics, and other specialties' imaging needs, thereby streamlining clinical workflow. IntelliSpace Portal /IX Workstation uses advanced networking capabilities to enable collaboration among clinicians that may ultimately lead to faster, more accurate and informed patient care. Clinicians can review the results and conduct measurements on images of multiple imaging modalities - including studies acquired from multiple vendors' imaging equipment -- at their convenience in their preferred location. With Intellispace Portal's advanced networking and thin-client technologies, the access to powerful visualization and image processing is significantly enhanced. In addition, the IntelliSpace Portal may now run in a virtual server environment, allowing you to capitalize on the power of your in-hospital network. The IntelliSpace Portal offers powerful capabilities, both standard and optional. Standard capabilities include:

- Thin-client architecture and multivendor compatibility that makes image data and applications available (for Portal configurations) anywhere for all CT, MR, Nuclear Medicine, Ultrasound, iXR and DXR images
- Guided Task workflow walks users through each processing stage from start to finish
- Use of bookmarks, interactive snapshots and other convenient tools to increase efficiencies and minimize training needs
- New color scheme for easier reading
- Performance-based licensing eliminates the need for purchasing a fixed set of licenses
- "Export to Neuro Surgery" feature to provide surgeons with accurate position information of white matter tracks, brain activation areas as well tumors in relation to an anatomical reference series designed for MR Neuro applications.
- Multimodality Viewer for display of CT, MR, Nuclear Medicine, Ultrasound, iXR and DXR datasets - standard
- Smart MR Viewing, smart linking, cine movie loop for MR datasets
- Save electronic Key Image Notes (KIN) directly within images to increase informal communication between various users
- Multimodality Fusion: PET-CT, SPECT-CT, NM-CT, CT-CT, MR-MR and CT-MR
- Automatic Registration: PET-CT, SPECT-CT, CT-CT and MR-MR
- PET/CT Alpha blending and 2D/3D SUV calculations
- Display of multi-frame secondary captures
- 3D Volume rendering, MIP, VIP, minIP, SurfaceMIP
- For Portal configurations: Clinical results can be ported directly into PACS or RIS using HL7, Encapsulated-PDF via DICOM, or mXML. Save Key images, notes, and tables directly to your reports; combine findings from multiple clinical applications into a single patient level report to be transferred directly into the PowerScribe 360 Diagnostic report.

Line #	Part #	Description	Qty
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Slab Review capabilities including regional investigation and curved MPR

- Volume Explorer: for instant and interactive seed-growing 3D segmentation
- "Glass View" to display bony structures in relation to 3D volumes
- Comprehensive DICOM Printing ("Filming")
- Dual monitor support -- for color monitors.
- DICOM & IHE compliance
- For Portal configurations: Supports PACS integration: Ability to launch the IntelliSpace Portal clinical applications from a PACS or RIS system at the time when the user is reviewing a study. This may improve workflow by automated steps, help reduces mistakes such as typo errors, eliminate additional search on ISP client for specific patients and even study/series after launching ISP client from PACS client. Closing study in PACS will also close it on Portal. (safety requirement. Automated exchange of bookmarks and results between ISP and PACS. Note: Certain PACS vendors may charge for the configuration services which are required per site.
- IntelliSpace Portal proprietary technology streams display to the client over a LAN, WAN or any broadband Internet connection through the hospital's VPN (virtual private network) without the need to download the CT, MR or Nuclear Medicine data to the client PC. The 'heavy lifting' and complex processing of the data is done on the server.

**Concurrency:** The concurrency thresholds are based on average usage estimations. Some applications may require additional resources which can limit overall user concurrency. The actual number of concurrent users that may use the system at any given time is limited by the available system resources and may vary. Given heightened resource requirements for Philips IQon CT Scanner Spectral applications (available from version 9), customers may expect Spectral application specific concurrency to be roughly 30% that of conventional applications.

Key specifications and requirements (for Portal Configurations):

VM Ware Specifications:

Memory:

- Memory (RAM) minimum: 2GB RAM. Recommended: 4 GB or above.
- Memory (RAM) minimum: 4GB RAM for clients also running PACS
- Memory (RAM) for NM applications and/or when other applications are running in parallel minimum: 4 GB RAM

CPU:

- Processor (CPU minimum): 2 cores @ 1.8 GHz / 4 cores @ 1.6 GHz
- Processor (CPU Minimum for NM applications and/or when other applications are running in parallel): 3 Cores @ 2.8 GHz / 4 Cores @ 2.4 GHz
- Processor (CPU recommended): 3 Cores @ 2.8 GHz / 4 Cores @ 2.4 GHz

Disk Space:

Free Disk Space\*: 4 GB or above (on Drive C)

Additional 5 GB of free disk space are required to burn DVD.

Monitor:

- Minimal screen resolution: 1024x768. Recommended: 1280x1024 (or above)
- Minimal screen Resolution for NM Apps: 1280x1024 (or above)
- Up to 3 Mega Pixel monitors are supported
- Monitor Dots Per Inch Settings: 96DPI
- 24bpp (or higher) color depth monitors
- No support for monochrome or grayscale-only monitors)

Multi monitor: Require adequate support of client display card and driver  
Graphic card (added in release notes)

The client machine should also support a graphic card with the following requirements:

1. Native DirectX 9.c support

Line #	Part #	Description	Qty
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2. Native GDI+ Support
3. Native Windows Aero interface support
4. 128MB RAM (for the graphic card)

#### Network

Minimum Network adapter speed: 100 Mbps or above  
Recommended Network adapter speed: 1 Gbps or above

#### LAN (Hospital) Network:

Network bandwidth/latency (LAN): 100 Mbit/s or above- (1 Gigabit/s or above recommended), 0-5ms Latency recommended.

#### Home connection

- Network bandwidth/latency (for home connection): 5 Mbit/s or above download speed, 512Kbit/s or above upload speed with latency <20ms
- Network bandwidth/latency for NM Apps (for home connection): 10 Mbit/s or above download speed, 1Mbit/s upload speed with latency <10ms
- Network bandwidth/latency for NM 3rd Party Apps (for home connection, AutoQuant, Corridor4DM, ECTb, NeuroQ) :
- 100Mbit/s download/ 10Mbit/s upload with <10ms latency

#### Software Pre-Requisites:Supported OS:

- Windows 7 (32 & 64 bit)
- Windows 8 / 8.1
- Windows 10
- Windows 7, 8, 8.1 and Windows 10 require an administrative account for initial installation

#### Pre-Installed software:

- Net Framework 4.5.2 Client + Extended or above
- Additional Software Recommended (for optional features):
- Adobe Acrobat Reader [for Report & Help]
- Adobe Flash Player [for On-line Web Trainings] Windows Media
- Windows Media Player 9.0 or above [for saving Movies] IMAPIv2 [for Burning CD/DVD]
- DirectX 9.c (or better) – Optional component required for better application experience

\* For the NA Market only

<b>2</b>	<b>Rack Configuration</b>	<b>1</b>
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<b>3</b>	<b>IntelliSpace portal EX/Premium</b>	<b>1</b>
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This is a hardware option in the new resource based license (RBL) model.

IntelliSpace Portal EX / Premium, ideal for an enterprise solution of up to 15 concurrent users, is designed to create smart clinical integration that often leads to enhanced patient outcomes. It is a thin-client applications server that turns virtually any PC that meets minimum requirements into an advanced multimodality imaging system workspace that can support radiology, cardiology, oncology, neurology, orthopedics, and other specialties' imaging needs, thereby streamlining imaging workflow. IntelliSpace

Portal uses advanced networking capabilities to enable collaboration among clinicians that may ultimately lead to faster, more accurate and informed patient care. Clinicians can review the results of multiple imaging modalities - including studies acquired from multiple vendors' imaging equipment -- at their convenience in their preferred location. Until now, most powerful visualization

Line #	Part #	Description	Qty
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workstations were housed in the radiology department, requiring a referring physician to make a special trip to view advanced images so crucial to accurate patient diagnoses. The IntelliSpace Portal offers powerful capabilities. Standard capabilities include:

- Thin-client architecture and multivendor compatibility that makes image data and applications available anywhere for all CT, MR, Nuclear Medicine images
- Guided Task workflow walks users through each processing stage from start to finish
- Use of bookmarks, interactive snapshots and other convenient tools to increase efficiencies and minimize training needs
- Unlimited number of client installs: number of concurrent users only subject to available server resources
- Multimodality Viewer for display of CT, MR and Nuclear Medicine datasets - standard
- Smart MR Viewing, smart linking, cine movie loop for MR datasets
- Multimodality Fusion: PET-CT, SPECT-CT, NM-CT, CT-CT, MR-MR and CT-MR
- Automatic Registration: PET-CT, SPECT-CT, CT-CT and MR-MR
- PET/CT Alpha blending and 2D/3D SUV calculations
- Display of multi-frame secondary captures
- 3D Volume rendering, MIP, VIP, minIP, SurfaceMIP
- Slab Review capabilities including regional investigation and curved MPR
- Volume Explorer: for instant and interactive seed-growing 3D segmentation
- "Glass View" to display bony structures in relation to 3D volumes
- Comprehensive DICOM Printing ("Filming")
- Dual monitor support -- for color monitors.
- DICOM & IHE compliance
- Supports PACS integration

IntelliSpace Portal proprietary technology streams display to the client over a LAN, WAN or any broadband Internet connection through the hospital's VPN (virtual private network) without the need to download the CT, MR or Nuclear Medicine data to the client PC. The 'heavy lifting' and complex processing of the data is done on the server.

Key specifications and requirements:

Server hardware specifications for Tower or Rack configuration:

- Two (2) HP ML350 Gen9 8-SFF CTO Tower or DL360 Gen9 8-SFF CTO Rack mounted servers, each with:
 

Processor	Dual Intel Xeon® E5-2643v3, 3.4GHz, 6C CPU
Memory	32GB 2133MHz (4x8GB)
Hard drive	3x 1.2TB SAS 10K 2.5in RAID5
Operation System	Microsoft Windows Server® 2008 R2; from version 9.0: Microsoft Windows Server® 2012 R2

The Extended Storage option contains 3x 1.2TB SAS 10K 2.5in that are in addition to the 3 installed HD's, so the total HD's will be 6x 1.2TB in RAID5

Server software specifications

- Philips IntelliSpace Portal server software, including: Proprietary Portal server application
- User management application for managing user database
- McAfee antivirus software provided by Philips

Networking:

- TCP/IP protocol only Static IP address Security:
- HIPAA compliance
- DIACAP compliance

Line #	Part #	Description	Qty
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- Portal Server access for authorized user only
- Access to the computer itself either using its console or by remote desktop
- Encrypted users/groups database file
- User management application available only to defined Portal administrators
- Encrypted transfer over the network of user name and password information
- Audit trail
- Windows Firewall
- Network requirements:
- Gigabit connections recommended
- Domain based network environment recommended

#### Client Specifications:

- Memory (RAM) minimum: 2GB RAM. Recommended: 4 GB or above (required for Dual Energy and Spectral applications).
- Memory (RAM) minimum: 4GB RAM for clients also running PACS
- Memory (RAM) for NM applications and/or when other applications are running in parallel minimum: 4 GB RAM
- Processor (CPU minimum): 2 cores @ 1.8 GHz / 4 cores @ 1.6 GHz
- Processor (CPU Minimum for NM applications and/or when other applications are running in parallel): 3 Cores @ 2.8 GHz / 4 Cores @ 2.4 GHz
- Processor (CPU recommended): 3 Cores @ 2.8 GHz / 4 Cores @ 2.4 GHz

\* Additional 5 GB of free disk space are required to burn DVD.

\* An additional 15 GB of free disk space are required to install iXR client

#### Monitor:

- Minimal screen resolution: 1024x768. Recommended: 1280x1024 (or above)
- Minimal screen Resolution for NM Apps: 1280x1024 (or above)
- Up to 3 MegaPixel monitors are supported
- 96DPI
- 24bpp (or higher) color depth monitors
- No support for monochrome or grayscale-only monitors)

Multi monitor: Require adequate support of client display card and driver

Minimum Network adapter speed: 100 Mbit/s or above

#### LAN Network

Network bandwidth/latency (LAN): 100 Mbit/s or above- (1 Gigabit/s or above recommended)

#### Home connection

- Network bandwidth/latency (for home connection): 5 Mbit/s or above download speed, 512Kbit/s or above upload speed with latency <20ms
- Network bandwidth/latency for NM Apps (for home connection): 10 Mbit/s or above download speed, 1Mbit/s upload speed with latency <10ms
- Network bandwidth/latency for NM 3rd Party Apps (for home connection, AutoQuant, Corridor4DM, ECTb, NeuroQ) : 100Mbit/s download/ 10Mbit/s upload with <10ms latency

Line #	Part #	Description	Qty
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Software Pre-Requisites:

- Supported OS:

- Windows 7 (32 & 64 bit)

- Windows 8, 8.1 (32bit, 64bit)

- Windows 10 (64bit)

- Windows 7/8 and Windows 10 require an administrative account for initial installation

- Net Framework 4.5.2 and/or above

Additional Software Recommended (for optional features): Adobe Acrobat Reader [for Report & Help]

Adobe Flash Player [for On-line Web Trainings] Windows Media Player 9.0 or above [for saving Movies] IMAPIv2 [for Burning CD/DVD]

A Supported Web Browser is required. The following is a list of supported browser versions:

- Google Chrome (Latest Released Version)

- Mozilla Firefox (Latest Released Version)

- Microsoft Internet Explorer (Version 11)

“The hardware specification in the quote is just for reference. The hardware that will eventually be delivered to customer under this quote either meets or exceeds the mentioned specs under your agreement.”

4

#### CT Spectral Standard

1

Spectral Diagnostic Engine is a suite of advanced visualization applications designed for the Philips IQon Spectral CT that delivers the advanced spectral viewing and clinical applications tools to meet the unique needs of the Philips Spectral CT community.

Spectral Diagnostic Engine standard capabilities include:

- Spectral enhanced CT Viewer (sCT Viewer) - Spectral enhanced CT Viewer is designed to display CT spectral and conventional datasets and accommodate the general spectral viewing needs with additional spectral tools that assist in extraction of anatomical and functional information that enhance CT diagnosis.

- Allows for retrospective analysis that automatically generates spectral results with interactive analysis

Line #	Part #	Description	Qty
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- Easy-to-use factory defined viewing presets per clinical question
- Modify viewing capabilities to achieve effective spectral workflow in your department

Spectral enhanced CT Viewer offers as a routine customization tools that allows utilization of the unique spectrum across different clinical areas.

- Spectral Magic Glass On PACS - The Spectral Magic Glass on PACS (sMGOP) is a software application intended to be launched directly from the PACS or other 3rd party viewer, and enable swift spectral inspection directly on the PACS.

- The sMGOP requires the SBI DICOM data series to be available on the ISP server in order to enable all the Spectral Review features (SBI is a DICOM image with proprietary parts)

- This vendor-agnostic plugin allows for integration with PACS offerings that comply with a certain set of requirements

Prerequisite: IntelliSpace Portal 9.0

<b>5</b>	<b>Extended Storage - 5TB</b>	<b>1</b>
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The IntelliSpace Portal extended storage option extends the on-line storage capabilities of your IntelliSpace Portal system by providing approximately 5 Terabytes of volatile storage.

Note: This option is not available for IntelliSpace Portal installed as a Software only option.

Prerequisite: Intellispace Portal V5 or higher and Dell T620/R620 Server or HP M350/D360 Server.

<b>6</b>	<b>Enhanced Zero-Click Perform V9</b>	<b>1</b>
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This option, also known as Enhanced Performance, is a powerful upgrade for IntelliSpace Portal servers which enables “zero-click” automated processing without any user interaction for the following clinical functions:

- Automatic preprocessing of bone removal and vessel segmentation within the Advanced Vessel Analysis (AVA) application for CT angiography (CTA) cases and MR Angiography (MRA) cases
- Automatic series creation for Advanced Vessel Analysis Application includes: cMPR, cross-sectional, MPR and volume images created completely automatically, even before the user arrives to the system.
- Automatic segmentation of cardiac anatomy within the Comprehensive Cardiac Analysis application
- Automatic segmentation of the centerlines of the inner lumen of the colon for the Virtual Colonoscopy application
- Liver Volume, Hepatic and Portal vessel automatic segmentation and classification for the CT Liver Analysis application

In addition, a machine learning feature allows the workstation to learn from prior application usage and automatically indicate the series and data type on which pre-processing should be applied. The feature periodically re-learns the data to track changes in usage needs. No user configuration is required.

Preprocessing automatically begins when the entire dataset has been loaded onto the IntelliSpace Portal server, for true “zero-click” convenience. With the Enhanced Performance option,



Line #	Part #	Description	Qty
		IntelliSpace Portal can provide up to an 80% reduction in preparation time for complex aorta and stent planning, and reduce CT virtual colonoscopy reading times to just five to ten minutes, allowing you to maintain diagnostic quality with significantly less time.	
		Prerequisite: Intellispace Portal 9.0.This option is not available for Intellispace Portal DX with T610 Server.	
7		<b>ISP Initial Handover End User</b>	1
		A Philips Clinical Workflow Adoption Consultant will provide a twenty-four (24) hour introduction to advanced visualization techniques for Technologists and /or Radiologists over three consecutive business days. The education will cover the fundamentals of image manipulation and processing associated with the specific software (application packages) purchased. Philips requires no more than 5 attendees per session to maximize the educational value.	
		Attendee(s) are responsible for adhering to the agreed upon clinical education statement of work. ASRT CEU credits may be available for each participant who meets ASRTcriteria. Education expires one (1) year from equipment installation date (or purchase date if sold separately).	
8		<b>ISP Clinical Workflow Consulting</b>	1
		Overview This service provides units of implementation services and/or time based consulting.	
		Engagement Deliverables • This covers the applicable Philips activities to perform Clinical Workflow Analysis for the IntelliSpace Portal. The analysis will include onsite and remote activities required to understand your workflow and to create recommendations based on those findings.	
		Engagement Completion Criteria • This action is completed upon the delivery of those recommendations. This does not include the delivery of the activities contained in those recommendations.	
		Customer Work Contributions • The customer will make the required resources available to the Clinical Workflow Consultant during this visit and any subsequent remote activities as requested.	
		Limitations • Services shall be delivered Monday thru Friday on Philips business days between the hours of 8am thru 5pm local time. • Does not include additions, deletions or modifications to current interfaces.	
9		<b>ISP Clinical Standardization Consulting</b>	1
		Overview This service provides units of implementation services and/or time based consulting.	
		Engagement Deliverables • This covers the applicable Philips activities to perform Clinical Workflow Standardization for the IntelliSpace Portal. This activity is designed to instruct the customer on the appropriate activities within their facilities to drive the standardization of the clinical workflow as related to the IntelliSpace Portal.	
		Engagement Completion Criteria • This action is completed upon the delivery of those instructions with the customer designated points of contact. The customer is expected to take the instructions / recommendations delivered in this activity to improve on their internal workflow.	

Line #	Part #	Description	Qty
		Customer Work Contributions <ul style="list-style-type: none"> <li>• The customer will make the required resources available to the Clinical Workflow Consultant during this visit.</li> </ul> Limitations <ul style="list-style-type: none"> <li>• Services shall be delivered Monday thru Friday on Philips business days between the hours of 8am thru 5pm local time.</li> <li>• Does not include additions, deletions or modifications to current interfaces.</li> </ul>	
10		<b>ISP Clinical Adoption Consulting</b>	1
		Overview This service provides units of implementation services and/or time based consulting.	
		Engagement Deliverables <ul style="list-style-type: none"> <li>• This covers the applicable Philips activities to perform Clinical Adoption for the IntelliSpace Portal. This activity is designed to instruct the customer on the appropriate activities within their facilities to drive the adoption of the clinical workflow as related to the IntelliSpace Portal.</li> </ul> Engagement Completion Criteria <ul style="list-style-type: none"> <li>• This action is completed upon the delivery of those instructions with the customer designated points of contact. The customer is expected to take the instructions / recommendations delivered in this activity to improve on their internal workflow.</li> </ul> Customer Work Contributions <ul style="list-style-type: none"> <li>• The customer will make the required resources available to the Clinical Workflow Consultant during this visit.</li> </ul> Limitations <ul style="list-style-type: none"> <li>• Services shall be delivered Monday thru Friday on Philips business days between the hours of 8am thru 5pm local time.</li> <li>• Does not include additions, deletions or modifications to current interfaces.</li> </ul>	
11		<b>ISP Clinical Optimization Consulting</b>	1
		Overview This service provides units of implementation services and/or time based consulting.	
		Engagement Deliverables <ul style="list-style-type: none"> <li>• This covers the applicable Philips activities to perform Clinical Workflow Optimization for the IntelliSpace Portal. This activity is designed to instruct the customer on the appropriate activities within their facilities to drive the optimization of the clinical workflow as related to the IntelliSpace Portal.</li> </ul> Engagement Completion Criteria <ul style="list-style-type: none"> <li>• This action is completed upon the delivery of those instructions with the customer designated points of contact. The customer is expected to take the instructions / recommendations delivered in this activity to improve on their internal workflow.</li> </ul> Customer Work Contributions	

Line #	Part #	Description	Qty
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- The customer will make the required resources available to the Clinical Workflow Consultant during this visit.

#### Limitations

- Services shall be delivered Monday thru Friday on Philips business days between the hours of 8am thru 5pm local time.
- Does not include additions, deletions or modifications to current interfaces.

12		<b>ISP Stand-alone Implementation Services</b>	<b>1</b>
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#### Overview

This service provides units of implementation services and/or time based consulting.

#### Engagement Deliverables

- This covers the applicable Philips activities to perform the implementation of the IntelliSpace Portal as configured in this order.

#### Engagement Completion Criteria

- This action is completed upon the successful technical installation of the IntelliSpace portal as signified by the customer signing the MDIR or FCU document. This is exclusive of the activities required by the customer (stated below) and payment is required upon completion of the Philips implementation activity.

#### Customer Work Contributions

- The customer will complete all deliverables as agreed to in the Statement of Work.

#### Limitations

- Services shall be delivered Monday thru Friday on Philips business days between the hours of 8am thru 5pm local time.
- Does not include additions, deletions or modifications to current interfaces.

**System Type:** New  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a Per Contract. All other part numbers are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.

**Additional Terms:**

Line #	Part #	Description	Qty
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1		<b>Rack Configuration</b>	1
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2		<b>Lung Nodule Assessment</b>	1
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Philips' Lung Nodule Assessment (LNA) is a powerful post processing clinical tool that provides the physician with quantitative and volumetric information about the size, shape and change over time of user-identified pulmonary lung nodules that are identified on high-resolution and low dose computed tomography (CT) images. LNA can also be used on low dose CT chest scans that may support Low Dose CT Lung Cancer Screening\*.

The LNA program optimizes overall performance and workflow of the lung nodule assessment process and enables volumetric analysis of pulmonary nodule or lesion size over time, helping the physician to assess the nodule's doubling time growth rate.

A single-click allows readers to rapidly switch between presets for the lung parenchyma, mediastinum, and bone. It delivers a robust comparative tool for nodule matching, one-touch segmentation and editing tools (2D, 3D), standardized measurement information and computerized results reporting supported by efficient presentation.

Quantitative size information can be reported on individual nodules during a single exam. Segmentations on each nodule are automatically stored and retrieved when the study is loaded for follow-up comparison after a new exam is completed. At this point, the user can load both the current and previous lung studies for linked viewing and comparison of nodules in each study.

**Multi-Vendor Compatibility\*\***

**Enhancements for ISP 10:**

- Nodule selection
- Confirm all + updated layouts
- Additional pre-fills for Perifissural/Subpleural and Endobronchial.
- Updated algorithms for lobe location pre-fill and Spiculation (which now also updates on edit)
- Emphysema pre-fill
- New Lung&Lobe segmentation (faster and improved)
- Nodule Mass characteristics is added
- Risk calculator can be calculated also without family history

**Prerequisite:** IntelliSpace portal 8.0 or higher

\*The screening must be performed within the established inclusion criteria of programs/ protocols that have been approved and published by either a governmental body or professional medical society.

\*\*Please contact your local Philips representative for details on Multi-Vendor coverage

## OPTIONS

Line #	Description	Qty
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1	<b>CT Comp Cardiac Analysis</b>	1
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Comprehensive Cardiac Analysis (CCA) is a complete cardiac evaluation package\* that provides simplified workflow and minimal user interaction. This high-tech cardiac analysis tool helps you visualize coronary trees, perform detailed coronary artery evaluations and analyze ventricular function. With CCA, you can substantially reduce the time and complexity of a cardiac evaluation, opening the doorway to quicker, more accurate analysis for the operator and faster clinical results.

This package includes:

- A **no-click** total cardiac segmentation for all phases selected with complete cage removal.
- Globe View (Globe, 3D Map and 2D Map).
- Unique "IVUS-like" view for the central cross-sectional cut.
- Easy stenosis calculations.
- Outstanding volume rendering visualization with coronary tree extraction and complete vessel visualization including its origin from the aorta for ostial morphology assessment. Slab tools (including cut planes) on Volume Rendered image in cine.
- New and advanced LV Functional Assessment, including bulls-eye presentation.
- Continuous identification of C-arm angles

Prerequisite: Intellispace Portal

2	<b>Multimodality AVA</b>	1
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AVA Stenosis offers a set of tools for general vascular analysis using CTA or MRA data sets. (For MR, AVA is compatible with Time-of-Flight (TOF), contrast enhanced MRA's, multi-phase data, and whole body acquisitions). AVA allows to organize the findings systematically, save and export them, thus providing a consistent ability to review complex structures.

For CT, enhanced algorithms easily remove or edit bone (skull or body), and extract and segment the vessels to quickly perform typical measurements such as intra-luminal diameter, cross sectional lumen area, length and tortuosity of vessel's segments, and angle of the vessels. Simplified, interactive measurement tools make it easy for the user to calculate the angulation between the superior neck and aneurysm, the angle between the superior neck and aneurysm lumen, as well as other complex anatomic calculations. In addition, the application produces batches of cMPR, cross-sectional, MPR and volume images created completely automatically, even before the user arrives to the system to shorten the total reading time (Requires Preprocessing and Enhanced Zero Click functionality). New workflows now support specific findings creation, like Stenosis, Aneurysm, and Diameter measurements.

For both CT and MR, AVA allows the user to display the dataset using volume rendering, Average, or MIP with cross sections images that can be used to delineate aneurysm, presence of mural calcification and lining mural thrombus, branch vessel (celiac, mesenteric, renal) and the ilio-femoral arterial runoff circulation.

Prerequisite: IntelliSpace V7 or convert ISP to V7 or upgrade ISP to V7

## OPTIONS

Line #	Description	Qty
3	<p><b>Enhanced MMTT</b></p> <p>Monitor disease state to assess treatment response using CT, MR, PET/CT and SPECT/CT data</p> <p>Segment lesions and quantify anatomic and metabolic state over time. Enhanced semi-automatic volumetric segmentation optimized per modality</p> <p>Automatic calculation of WHO, RECIST 1.0, RECIST 1.1, CHOI, PERCIST, and mRECIST criteria presented in easily exportable tabular and graphical layouts.</p> <p>From version 9.0: Application provides PET metabolic volume segmentation option based on percentage. Application includes Glucose SUV – an option to calculate the lesion uptake normalized by the patient glucose level.</p> <p>Advanced treatment response criteria support is part of the preset and reflected in an enhanced workflow which allows for easy segmentation, editing, and review in different layouts. Quantitative overview of volumetric and functional features is organized for greatest ease of use.</p> <p>Prerequisite: IntelliSpace Portal 7 or higher</p>	1
4	<p><b>CT Spectral Tumor Track</b></p> <p>The Spectral Tumor Tracking (sTT) application is intended to assist clinicians in viewing and evaluating CT images, for the inspection of tumors. sTT provides abilities to</p> <ul style="list-style-type: none"> <li>- Extract and edit lesions on spectral data</li> <li>- Perform lesion analysis based on Spectral data</li> <li>- Use the Spectral plots to characterize tumors</li> <li>- Whole tumor histograms based on Z-Effective or Iodine content</li> <li>- Results table including mean Z effective and Iodine values per lesion</li> </ul> <p>Prerequisites: IntelliSpace Portal 9.0, Spectral Diagnostic Engine (NICB420) and MMTT.</p>	1
5	<p><b>CT Spectral CCA</b></p> <p>The Spectral Comprehensive Cardiac Analysis (sCCA) application is intended to assist clinicians in viewing and evaluating cardiovascular CT images. sCCA provides abilities to:</p> <ul style="list-style-type: none"> <li>- Extract and edit coronary wall and lumen based on Spectral data</li> <li>- Perform Plaque analysis based on Spectral data</li> </ul> <p>Prerequisite: IntelliSpace Portal 9.0, Spectral Diagnostic Engine (NICB420) and CT Comprehensive Cardiac Analysis.</p>	1

## OPTIONS

Line #	Description	Qty
6	<b>CT Spectral AVA</b> The Spectral Advanced Vessel Analysis (sAVA) application is intended to assist clinicians in viewing and evaluating CT images, for the inspection of contrast-enhanced vessels. sAVA provides abilities to: <ul style="list-style-type: none"><li>- Extract and edit vessel wall and lumen based on Spectral data</li><li>- Perform lesion analysis based on Spectral data</li><li>- Use the Spectral plots to characterize plaques and stenosis</li><li>- Compare the extracted vessels using various Spectral results</li></ul>	1
Prerequisites: IntelliSpace Portal 9.0, Spectral Diagnostic Engine (NICB420) and MM AVA.		