

JACC/JOINT AMB. B60003
V.A. Medical Center
CARE CENTER
790 VETERANS WAY
PENSACOLA, FL 32507
DEL. TO: JACC IMAGING/1D143
P.O. 520-B60003

Line #	Part #	Description	Qty
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1		Ingenuity Core 2014	1
		Ingenuity Core Configuration	

Low-dose, high-quality imaging and coverage, and the ability to personalize image quality* patient by patient. Expect excellence in routine imaging, with improved image quality across a range of patients. Ingenuity Core offers you all of this, in addition to in-room upgradability to Ingenuity Elite or Ingenuity Elite with IMR so its capabilities can grow as your needs grow.

Philips Ingenuity Core offers 4 cm coverage for excellent image quality and is also available with iDose4, our iterative reconstruction technique. With a focus on clinical integration and collaboration, patient focus, and improved economic value, the scanner provides improved image quality at low dose with up to 57% improvement in spatial resolution. Now you can personalize image quality based on your patients' needs at low dose. And with Ingenuity Core with iDose4, reconstruction is achieved in seconds rather than minutes.

iDose4 is an iterative reconstruction technique that gives you control of the dial so you can personalize image quality based on your patients' needs at low dose. When used in combination with the advanced technologies of the iCT, Ingenuity, and Brilliance scanner families, this provides a unique approach to managing important factors in patient care – a new era in low energy, low dose and low injected contrast imaging.

With Ingenuity Core, the majority of factory protocols reconstructed using iDose4 are completed in 60 seconds or less. One click from the start of the scan and you're ready to read at the workstation or portal. Additionally, the Ingenuity core includes iPatient: an advanced platform that delivers focused innovations to facilitate patient-centered imaging, now and in the future.

Ingenuity Core Key Features

- iDose4 Premium Package
- iPatient
- 4 cm of coverage
- kV stations of 80, 100, 120, 140 kVp
- MRC Ice X-Ray Tube
- 80 kW Generator
- Upgradability

Intelligent Technologies

The Ingenuity family is built on the best in Philips class intelligent technologies for the speed, accuracy, and reliability to enhance your workflow on a daily basis.

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 advance procedures with ease and efficiency. iPatient removes unnecessary complexity and allows our customers to

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get the job done while driving 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 operator-to-operator 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.

MRC Ice X-ray Tube

Liquid coolant carries heat away from the MRC Ice X-ray tube, so Ingenuity Core is ready for the most demanding scans, one right after the other. The Philips MRC Ice X-ray tube is designed to be one of the most reliable in the industry. Built for high volume and 24-hour consistency, there is no waiting for the tube to warm up before the scan and no waiting for it to cool down.

Detector

Detector design is fundamental to the objective of acquiring high quality images while managing patient dose. Unlike single matrix detectors that simply sum elements, Philips designs configuration-specific detectors that minimize the separation between elements to always provide the highest geometric detector efficiency. Direct-to-digital signal conversion with TACH2 technology reduces dose and improves image quality.

Generator

The Ingenuity generator uses low-voltage slip ring technology to provide a constant high voltage to the CT x-ray tube assembly.

Scan Times

0.5, 0.75, 1, 1.5, 2 seconds for full 360° scans

Reconstruction

iDose4 Premium Package

The iDose4 Premium Package includes two leading technologies that can improve image quality – the iDose4 iterative reconstruction technique and metal artifact reduction for large orthopedic implants (O-MAR). iDose4 is a 4th-generation advanced iterative reconstruction technique that improves image quality* through artifact prevention and increased spatial resolution at low dose. O-MAR reduces artifacts caused by large orthopedic implants. Together they produce high image quality with reduced artifacts.

With the iDose4 Premium Package, reconstruction is achieved in seconds rather than minutes. This is due to the innovative RapidView IR reconstruction engine. Designed to support iDose4, this proprietary technology allows for this iterative reconstruction technique to be used routinely in inpatient, outpatient, and emergency-care settings. The design seamlessly integrates into your CT department, and provides you the look and feel of conventional, higher-dose images without long processing times.

ClearRay Reconstruction

A revolutionary solution to beam hardening and scatter artifact, modeling and simulation technology pre-computes and stores beam hardening and scatter corrections in a database that is later referenced to create a correction that is personalized to each individual patient. As a fully three-dimensional technique, contrast scale stability is preserved across different patient sizes, image uniformity is improved, and organ boundaries are better visualized.

Evolving Reconstruction

Provides real-time 256 x 256 matrix image reconstruction and display in step with spiral

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acquisition. Images can be modified for window width and level, zoom and pan prior to reconstruction. At the end of the acquisition, all images are updated with the desired viewing settings.

Adaptive filtering

Adaptive filters reduce pattern noise (streaks) in nonhomogenous bodies, improving overall image quality.

HyperSight IR Reconstruction

HyperSight IR reconstruction is the result of years of advanced research, and was designed specifically to satisfy the performance requirements and processing power needed to seamlessly integrate the iDose4 Premium Package and iPatient into your department. HyperSight IR provides dramatic improvements in workflow by displaying images at breakthrough rates, regardless of acquisition speed or reconstruction parameter. The majority of factory protocols with iDose4 are reconstructed in less than a minute, with reconstruction speeds up to 18 images per second with iDose4 and up to 20 images per second with standard reconstruction.

ConeBeam Reconstruction Algorithm – COBRA

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

Ultra High Resolution Matrix Sizes

Exclusive to Philips, 768 × 768 and 1024 × 1024 image reconstruction matrix sizes display all of the high-resolution data acquired in applications, such as inner ear, spine and high-resolution lung imaging. As scan resolution increases, larger reconstruction matrix sizes are required maintain the full scan resolution for the reconstructed field of view.

Dose Management

Philips' DoseWise philosophy is a set of principles and practices that ensures the best possible outcomes with minimal risk to patients and staff. The Ingenuity platform employs a number of features that help provide high 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)

DoseCheck enables the ability to set dose thresholds and provides alerts and notifications to the scan operator when radiation dose levels will be exceeded.

There are two threshold level values: Notification Values, Alert Values

Notification values apply to a single image series, and Alert values apply to an overall exam. Both CTDIvol and Dose Length Product (DLP) values can be set.

For Alert values that will be exceeded, the system requires the user provide name and password information before proceeding to scan. Also, an additional indication will appear in the Dose Info Page Series when the Notification or Alert values have been exceeded during a scan.

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.

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		<i>Dedicated Pediatric Protocols</i> Developed in collaboration with top children's hospitals, age and weight-based infant and pediatric protocols enhance image quality at low dose.	
		<i>DoseRight ACS (Automatic Current Selection)</i> 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.	
		<i>DoseRight Angular Dose Modulation</i> Automatically controls the tube current angularly, increasing the signal over areas of higher attenuation (e.g., lateral) and decreasing signal over areas of less attenuation (e.g., anteroposterior).	
		<i>DoseRight Z-DOM (Longitudinal Dose Modulation)</i> 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).	
		<i>Dose Displays</i> <ul style="list-style-type: none"> - Volume Computed Tomography Dose Index (CTDIvol) - Dose-Length Product (DLP) - Dose Efficiency 	
		Scan and Image Acquisition	
		<i>Scan Ruler</i> Provides a visual, highly interactive view of the entire procedure that allows 1-click updates to important study events.	
		<i>Spiral Scanning</i> Multiple contiguous slices acquired simultaneously with continuous table movement during scans allowing for multiple, bidirectional acquisitions	
		<i>Axial Scanning</i> Multiple-slice scan with incremental table movement between scans.	
		<i>Test Injection Bolus Timing</i> Establishes the optimum 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 optimal peak contrast enhancement and reduced contrast usage.	
		<i>Bolus Tracking</i> 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.	
		<i>Spiral Auto Start</i> 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: <ul style="list-style-type: none"> - Costs to upgrade an approved injector and any cabling is the responsibility of the user. 	

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- Compatible with following Injectors:
Medrad Envision/Stellant, Medrad Vistron, Liebel-Flarsheim, Tyco CT 9000, Medtron CT 2, Nemoto Dual Shot, Mallinckrodt OptiVantage DH, E-Z-EM Empower, Swiss Medicare, Ulrich Injectors

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

- 500 GB Hard Disk
- Image Storage Capacity: 512 X 512 Image Matrix = 900,000 typical number of uncompressed images

DVD-RAM Storage

Provides a solution for data storage. DVD-RAM disks are written in a proprietary Philips format and are able to be read only on Philips EBW (v3.0.1 or higher), and CT scanner units (v2.3 or higher) with a DVD-RAM drive.

- 4.7 GB DVD-RAM
- Image Storage Capacity: 512 X 512 Image Matrix = 15,000 typical number of compressed images

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

Network connections should be located within 10 feet of the console. 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 Connectivity. Further details on connectivity and interoperability are provided within the DICOM Conformance statement.

Operator Console, Patient Handling, and Setup

Philips provides an operator work environment that is both flexible and easy to use. 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.

Manual Scan

Places slice-by-slice scans under operator control with on-line or off-line reconstruction, background image archiving to local or remote storage devices. At any time, the operator is able

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to switch from automatic to manual scan and back.

Automatic Scan

Enables automatic execution of pre-planned studies, with concurrent, on-line or off-line reconstruction, background image archiving to local or remote storage devices, without operator intervention

Gantry Control Panels

Gantry Control Panels for gantry tilt, patient couch elevation and stroke are located at the operator's console as well as on front and back and left and right sides of the gantry. Additional functions at the operator's console include emergency stop, intercom and scan enable/pause buttons.

Gantry Aperture: 700 mm diameter

Gantry Tilt: -30° to +30°; 0.5° increments.

Infant Calibration Phantom

The Infant Calibration Phantom is a Philips-exclusive tool used to calibrate system parameters to optimize the system for scanning infants.

Patient Centering on Surview

Centering the patient properly is one of the most important factors in getting good image quality. Traditionally, patients are centered using the gantry laser lights; with this feature it is possible to improve patient centering using the lateral surview with real time feedback.

Intercom System and Multilingual 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. Pre-selected languages available include: -English, Hebrew, German, French, Arabic, Danish, Spanish, Russian, Swedish, Italian, Georgian, Chinese, Japanese, Turkish and Portuguese.

Dual Surview Planning

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

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, ensuring that only the desired scanning procedures are performed. This is especially useful for infrequent users of the CT scanner.

Table Accessories

Prevent fatigue and discomfort and give both patients and technologists a sense of security: patient restraint kit, table extension, standard head holder, table pad, IV Pole, arm rests, cushions, and pads.

Also Includes

- *Expert Protocol Planning*
- *Preset Post-Processing*
- *DICOM Modality Worklist*
- *Prefetch Study*
- *Split Study*

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Applications

Organ ID

Automatically isolates lung images for better viewing, including lung limit detection, zoom and pan setting, lung windowing, image enhancement, and image filming.

Volume Rendering

Provides simultaneous visualization of vasculature, soft tissue, and bone. Offers real-time, interactive control of opacity and transparency to permit viewing through and beyond surrounding structures, such as metallic stents and arterial calcifications, and virtually eliminates the need for organ segmentation prior to visualization.

Q-CTA - Quantitative CT Measurement Tool Package

Q-CTA is a tool kit for quantitative measurements of anatomic structures, such as vasculature pathology from 2-D, 3-D or volume-rendered images.

Also includes:

- *Survival Plan*
- *Guided Flow*

ScanTools and ScanTools Pro

The ScanTools package of advanced components and productivity features streamlines routine imaging studies, and comes standard with your scanner. ScanTools Pro is a supplemental set of tools standard on your scanner that enhances productivity, workflow, and diagnostic confidence. The components of ScanTools and ScanTools Pro are located throughout the quote under the appropriate headings.

Siting information

Power Requirements

- 200/208/240/380/400/460/415/480/500 VAC at 112.5 kVA (150 kVA preferred) and 50/60Hz
- Three-phase distribution source

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

Clinical Education Program for Ingenuity Systems:

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. A 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

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		<p>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.</p> <p>Follow-Up On-Site Education: Clinical Education Specialists will provide twenty-eight (28) hours of follow-up CT On-Site 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.</p> <p>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.</p> <p>Education expires one (1) year from equipment installation date (or purchase date if sold separately).</p> <p>Ref# 618619620621-20110921</p>	
2		<p>Standard Table</p> <p><u>Table Specifications:</u></p> <p><i>Longitudinal motion:</i></p> <p>Manual Stroke: 1890 mm</p> <p>Scannable range: 1750 mm</p> <p>Acquisition Speed: 0.5 to 185 mm/sec (iCT)</p> <p>0.5 to 143 mm/sec (64)</p> <p>0.5 to 100 mm/sec (Brilliance 16, Big Bore)</p> <p>Load/Unload Speed: 0.5 to 185 mm/sec (iCT, Brilliance 64)</p> <p>Position accuracy: ±0.25 mm</p> <p><i>Vertical motion:</i></p> <p>Range: 578 to 1028 mm; 1.0 mm inc.</p> <p>645 to 1065mm; 1.0 mm inc. (iCT)</p> <p><i>Table load capacity:</i> 204 kg (450 lbs)</p> <p><i>Floating tabletop:</i> Carbon-fiber table top with foot pedal and handrail control for easy positioning and quick release.</p>	1
3		Operator's Manual - English	1
4		Keyboard Language - English	1
5		Teal 100kVA Isotran LM	1
		Teal 100kVA Isotran LM	
6		<p>UPS</p> <p>480VAC/60Hz/125kVA/19kWH</p> <p>Staco</p>	1

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Uninterruptible Power Supply (UPS) with Voltage Regulator and Power Entrance Controller functionality. Provides power to permit up to 30 minutes of scanning after a power failure. This allows the user to complete the patient scan, save data and make an orderly system shut-down. Also insures that incoming power meets Healthcare's specifications for optimal CT system reliability and performance. The UPS regulates utility voltage deviations, stabilizes line frequency, and subdues line voltage surges & spikes, prevents loss of phase and total power outages, while also ensuring positive phase rotation.
Input voltage: 480 VAC/60 Hz.

Line Matching Transformer required for 60 Hz input voltages with less than 480 VAC input. Refer to Planning Reference Documentation for more details.

7		Ingenuity CT 3.x	1
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Ingenuity CT 3.x
Course Number: CT3008
System Codes: NA
Course Title: Ingenuity CT 3.x
Course Length: 2 DAYS
Delivery Method(s): Virtual Classroom
Modality: CT
Location: Adobe Connect
Target Audience: Service Engineers

DESCRIPTION:

- This course provides the engineer with comprehensive knowledge and skills required for troubleshooting the Ingenuity CT system. This course is a blended learning course, with prerequisites of topics in eLearning which do not require the physical presence of the learner in the Training Academy, and Virtual Classroom instruction. This course replaces CT3001, with addition of material on the Ingenuity Flex model.

PREREQUISITES:

- Brilliance Air Family course CT3819
- Infrared Data Ring Velocity Laser CT9008
- Introduction to iDose4 CT9011

COURSE OBJECTIVES:

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

- Explain prescribed safety procedures and avoid known equipment hazards
- Describe the general theory of operation for the Ingenuity CT scanner.
- Describe the general theory of operation of iDose.
- Identify proper use of troubleshooting / diagnostic tools and techniques for troubleshooting iDose related problems.
- Describe the theory of operation of the Ingenuity CT Reconstruction subsystem.
- Describe the theory of operation of the Ingenuity CT Data Acquisition and Sampling (DAS) System.
- Describe the theory of operation of the Ingenuity CT High Voltage subsystem.
- Describe the theory of operation of the Ingenuity CT Extended Range Couch.
- Identify and describe proper use of troubleshooting / diagnostic tools and techniques.
- Describe the Ingenuity CT system installation process.

* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE

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		<p>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"> 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 <p>Revision: 20090707</p>	
8		<p>Medrad Stellant ISI Interface Unit</p> <p>Medrad Stellant "ISI Interface Unit: Medrad Catalog # 3010434 The Medrad Stellant "ISI" Interface Unit provides the needed interface between the Stellant CT Injector and the SAS Option of the Brilliance CT Scanner.</p>	1
9		<p>Bayer Stell DH/DF CT Inj w/CD-Medium OCS</p> <p>Bayer Healthcare Stellant Dual Head/Dual Flow CT Injector w/ Console Display - Medium OCS:</p> <p>Bayer Catalog # SCT322PH:</p> <ul style="list-style-type: none"> - 3032458 Stellant Dual Head Pedestal Injector with Console Display, informatics ready. - 3016426 Medium OCS (850mm) - 3012559 Dual Flow - 3016436 Ceiling Plate - INST SCT Installation <p>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.</p> <p>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.</p> <p>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</p>	1

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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).