

XR-CT, VAMC DETROIT, MI

EQUIPMENT PO# 553-B30014

TURNKEY PO# 553-B30013

Toshiba AQUILON MULTI 16 Product:

Serial Number: 1-43I5Q9

Manufacturer: TOSHIBA

Line #	Part #	Description	Qty
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1		iCT	1
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iCT Configuration

The iCT family of premium CT scanners continues to take CT imaging to new levels. Not only does this scanner family deliver exceptional image quality, its advanced technology can also help you to manage x-ray dose and injected contrast — important factors for managing patient risk. Built upon our latest advances in iterative reconstruction techniques, workflow, and detector technologies, the iCT is designed to redefine CT imaging.

At Philips, we understand that the day-to-day aspects of CT require you to do more, in less time, and with low dose, over a wide range of body types, heart rates, and patient conditions. The iCT 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.

The iCT is specifically designed to meet the unique needs of imaging from head to toe. With a focus on clinical collaboration and integration, patient care, and economic value, this system will provide the high image quality you seek with the outstanding lows that are becoming increasingly important (low energy, low dose, and low injected contrast).

The unique combination of hardware innovations, state-of-the art acquisitions, and the iDose4 Premium Package offers you premium results; low-energy imaging for the majority of patients, chest CT near the dose of a chest x-ray, and up to 50% improvement in spatial resolution.

iCT Key Features

- iDose4 Premium Package
- Rate Responsive Toolkit for iCT
- 256 Slices 8 cm coverage
- AirGlide Gantry with 0.27 second rotation time
- iMRC X-Ray Tube with 120 kW generator
- 80, 100, 120, 140 kVp tube voltages
- Eclipse DoseRight Collimator
- DE Ready

Features

The iCT 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.

iMRC X-ray Tube

- Most powerful scanner available globally
- 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 provides virtually motion-free focal spot for better image clarity

AirGlide Gantry

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

NanoPanel3D Detector

- Industry's first modular, integrated, and scalable detector
- Reduces electronic noise by 86% versus conventional detector design
- Industry's first 2D anti-scatter grid – ClearRay collimator reduces the effects of scattered radiation not contributing to image formation

Spherical Detector

- World's first true spherical CT detector geometry
- Allows each NanoPanel3D to be focused directly at the source to allow high image quality

Eclipse DoseRight Collimator

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

Rotation Times

0.27, 0.3, 0.33, 0.375, 0.4, 0.5, 0.75, 1, 1.5 seconds for full 360° scans; 0.18, 0.2 seconds for 240° 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.

Adaptive filtering

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

RapidView IR Reconstruction

RapidView 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 into your department. RapidView 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 24 images per second with iDose4 and up to 33 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.

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.

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.

Cardiac Imaging

Rate Responsive Toolkit for iCT

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.

0.27 Second Rotation

0.27-second, 360° rotation time provides 135 ms standard temporal resolution for cardiovascular imaging and other clinical applications where high temporal resolution is required. This temporal resolution especially benefits prospective gated coronary CTA with Step & Shoot Complete (separate option).

DoseRight Cardiac

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, saving considerable dose.

Retrospective Tagging

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 best phase for cardiac CT imaging.

Prospective Gating

Prospectively triggers axial scans using Philips' patented Beat-to-Beat Variable Delay Algorithm for accurate and reproducible calcification scoring studies.

Integrated ECG Monitor

Philips' advanced ECG monitor is used for gated cardiac scans. Integrated design eliminates the need for an additional ECG monitor and stand in the scan room.

COBRA Reconstruction (COBRA Cardiac)

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

Cardiac Viewer

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.

Calcium Scoring

Provides Agatston, Volume, and Mass scores. Incorporates a database of greater than 5,000 asymptomatic multislice calcium scoring scans.

CT Reporting

Provides capabilities for editable paper, print, and electronic clinical reports; including display of 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 principles and practices that ensures the best possible outcomes with minimal risk to patients and staff. The iCT platform employs a number of features that help provide high dose efficiency.

Dose warning messages

For brain perfusion and other repeated studies, a warning message is presented if the CT DIvol estimated ahead of scan time exceeds 250 mGy.

Dose summary table

Captures per-patient dose information for each series acquired and reports the total dose for the entire study. The dose summary table can be sent to PACS or a workstation along with the study for easy review.

Locking Protocols

Prevents unapproved modification of scanning protocols through password-protection.

Dedicated Pediatric Protocols

Developed in collaboration with top children's hospitals, age 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 Angular Dose Modulation

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).

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).

Dose Displays

- Volume Computed Tomography Dose Index (CTDIvol)
- Dose-Length Product (DLP)
- Dose Efficiency

Scan and Image Acquisition

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.

Ultra-High Resolution

Ultra-high resolution allows imaging with spatial resolution up to 24 lp/cm.

Test Injection Bolus Timing

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.

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

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 are the responsibility of the user.
- Compatible with most Medrad E-Z-EM and Tyco injectors

DE Ready

DE Ready includes a *Dual Energy scan type* that allows the acquisition and reconstruction of sequential dual-energy scans.

Note: To obtain the Spectral Analysis application, an optional IntelliSpace Portal IX must be purchased on the same order as a DE-Ready iCT family scanner. The Spectral Analysis application may allow separation and analysis of materials such as calcium, iodine and uric acid when used with dual-energy scan data.

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

- 300 GB Hard Disk
- Image Storage Capacity: approximately 1 million compressed 512 X 512 matrix images

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.

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: approximately 15,000 compressed 512 x 512 matrix 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

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 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

Breathing Lights and Patient Aperture Panel

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

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.

Infant Calibration Phantom

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

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, French, Spanish, Georgian, Italian, Japanese, Arabic, Russian, German, Swedish, Danish, Turkish, Dutch, and Norwegian. .

Dual Survey Planning

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

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*

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.

Also includes:

- *Survey Plan*
- *Guided Flow*
- *Bone Mineral Analysis*
- *Dental*

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

- 380 - 480 VAC at 225 kVA and 50/60Hz
- Three-phase distribution source

Clinical Education Program for iCT Systems Configuration:

Essentials Off-Site 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 Brilliance 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 On-Site 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 On-Site 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 Off-Site) is purchased with all Off-Site courses.

Handover On-Site Education: This twenty-eight (28) training event will fine tune and expand upon knowledge learned during the Essentials Off-Site with focus on maximizing scanning techniques and protocols. This session is to be attended by the same two (2) technologists from Essentials Off-Site, 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.

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. CEU(s) are not available in all cases.

Follow-Up On-Site Education: Clinical Education Specialists will provide twenty-four (24) 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. CEU(s) 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.

The above education entitlements expire one (1) year from System installation date (or purchase date if sold separately). Ref#: 218372366180-100614

2	Bariatric Table	1
The Brilliance 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

Vertical motion:

Range:	578 to 1028 mm; 1.0 mm inc. 645 to 1065mm; 1.0 mm inc. (iCT)
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<i>Table load capacity:</i>	295 kg (650 lbs)
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Floating tabletop: Carbon-fiber table top with foot pedal and handrail control for easy positioning and quick release.

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.

3	Operator's Manual - English	1
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4	Keyboard Language - English	1
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5	Computer Table	1
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Computer Table, for the Brilliance Console or the Extended Brilliance Workspace, provides a large enough working space (120cm) to accommodate dual monitors and other peripheral devices.

6	iPatient Option - iCT	1
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Philips' iPatient is an advanced platform that delivers focused innovations to facilitate patient-centered imaging, now and in the future. This powerful platform puts users 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 get the job done with less stress and greater confidence, and prepares for future innovations that will help improve the care being delivered to the patient.

Dose Management

The Philips iPatient approach to patient-centered imaging includes new, patient-specific methods

to facilitate optimal management of both image quality and radiation dose.

These methods were designed to simplify the adaptation of scan protocols and advanced techniques— such as dose modulation and iterative reconstruction — for each individual patient and diagnostic task and include:

- **DoseRight Index (DRI):** a single number used to specify the image quality required for the diagnostic task at hand
- **Organ-specific DRI:** Liver and Head/Neck localized settings to optimize dose and image quality
- **NEMA XR-25 DoseCheck**
- **DICOM Structured Reporting for Dose**
- **IHE REM Profile**
- **DoseRight 3D Modulation**
- DoseRight ACS
- Ability to set a maximum and minimum dose per ExamCard
- Dose display on Surview for the planned acquisitions
- 11 (1 infant, 7 pediatric, 3 adult) size-specific reference diameters, directly related to weight intervals, that may be used to establish patient-centric ExamCards
- Locking Protocols

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.

Workflow Enhancements

iPatient is the ideal platform for high-throughput for both routine and trauma exams. iPatient's holistic approach to workflow makes the entire procedure simpler and easier. Some features include:

- **Scan Ruler:** provides a visual, highly interactive view of the entire procedure that allows 1-click updates to important study events
- **Fast Preview:** displays real-time 512x512 matrix image reconstruction and 5 mm x 5 mm contiguous slices 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.
- **View2:** allows you to work with more than one patient at a time. With one-click move the current patient to the right monitor to continue working and on the left monitor you can simultaneously begin the next patient.

Note: This option/upgrade is a future deliverable and may be shipped after other items in the same order.

7	Operator's Manual - English	1
8	Step & Shoot Complete	1

Step & Shoot Complete enables low dose, axial CT imaging of either the heart or the entire chest. This axial prospective ECG-gated acquisition technique uses a large collimation to achieve full heart coverage with sub-millimeter, isotropic resolution within a short breath-hold. It is ideally suited for patients with heart rates below 75 bpm and where low radiation dose is needed. Arrhythmias are detected by proprietary algorithms; scanner acquisitions are adjusted accordingly. Post-processing may be performed on existing coronary CT software.

This axial prospective ECG-gated acquisition technique uses large collimations and full 50 cm Field of Views to acquire and reconstruct datasets of the entire chest expanding visualization from the coronary arteries to central and peripheral vascular within the thorax.

Prerequisite: Brilliance iCT Essential, Configuration, Rate Responsive CV toolkit for iCT

9 CT Fluoroscopy Package for iCT - Cart Mount 1

The CT Fluoroscopy Package - Cart Mount includes both CT Fluoroscopy and Continuous CT (CCT) applications utilizing a cart-mounted monitor.

Philips' CT Fluoroscopy application provides real-time guidance for interventional procedures (up to 8fps). The user can view one fused image while time and dose displays keep the interventional radiologist aware of exposure levels throughout the procedure. In addition to the real-time mode, Continuous CT (CCT) biopsy mode enables the clinician to perform gantry room scans using a foot pedal and includes a remote monitor for viewing. Each exposure is a 240° axial centered beneath the patient to shield the clinician's hands from direct X-ray exposure. Exposures are single and series (continuous) selectable via foot switch.

10 Load Unload Foot Pedal iCT 1

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 the freeing the operator's hands to prepare, restrain, or release the patient.

11 Add. Manual - English 1

Additional Operator Manuals may be ordered. One set is included with the base system.

12 Medrad Stellant ISI Interface Unit 1

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.

13 MEDRAD Connect.PACS™ 1

Connect.PACS informatics application integrates with the Stellant® CT Injection System to automatically document/electronically archive CT contrast-injection records into a secure database offering remote access. Benefits include:

- Uncovering quality improvement opportunities for patient safety including protocol adherence and adverse events
- Improving documentation accuracy/ facilitating compliance

Connect.PACS immediately integrates contrast records into PACS and displays injection parameters alongside associated image sets. Contrast injection data access gives radiologists added real-time diagnostic insight for more-informed decision making.

Medrad Stlnt D Dual Flow CT OH Sys

Medrad Stellant D CT - Dual Syringe w/DualFlow - Overhead System:

Medrad Catalog # SCT 222

The Stellant D CT Injection System is comprised of the injector head located in the screening room and a touch screen Display Control Unit (DCU) and Base unit, which is typically located in the control room. The three components are connected by a communication link.

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.

Stellant D with DualFlow option is more than a saline flush after a contrast bolus. Now you can inject both contrast and saline at the same time. The key is the simultaneous injection capability of the DualFlow option. DualFlow enables variable ratios of plunger motion from the contrast and saline syringes simultaneously. With the proper ratio, left and right heart ventricles can be illuminated uniformly for improved image quality.

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

Philips does not warranty the Medrad Stellant CT Injector System but will pass on the Medrad warranty. Medrad 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 Medrad, 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).

Not compatible with PQ/UltraZ/Mx8000 injector Interface. NOT compatible with MCT8651 SAS Spiral Auto Start on Mx8000.

iPatient Entitlement

CT iPatient Upgrade Education:

This twenty-eight (28) hour training event will focus on maximizing advanced scanning concepts, protocols, dose tools and interface module for MedRad injector. This session should 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.

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 equipment installation date (or purchase date if sold separately). Ref #827743-130121

225KVA UPS WITH BATTERY CABINET FOR BRILLIANCE ICT 256 SLICE CT.

Product: Toshiba AQUILON MULTI 16
Serial Number: 1-4315Q9
Manufacturer: TOSHIBA AMERICA MEDICAL SYSTEMS

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.
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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
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1		Food Transpt Lodging for Cleveland Biomed Training	10
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Includes one (1) day of modest lodging, ground transportation, and meal expenses in Cleveland, Ohio for one (1) attendee. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Although this part is only for one day, it is sold in multiple quantities to account for entire length of course. Expires one (1) year from the earlier of equipment delivery date or purchase date.

2		CT8011 BrillianceiCT Differences	1
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Course Number: CT8011
Class Length: 10 days
Delivery Method: Instructor-Led
Modality: CT

Description:

This course combines a series of lecture and skill sessions covering the difference in the iCT to the Brilliance Air Family of CT Scanners, preparing the Field Service Engineer to safely operate, calibrate, perform planned maintenance, perform diagnostic & troubleshooting procedures and repair the iCT to the defined level of service.

Prerequisites:

Prior training and experience on the Brilliance Air Family of CT Scanners is required. Prior training includes one or more of the below courses:

CT3020 - Gateway Brilliance / iCT Class
CT3819 - Brilliance Air Family Class

A fully functional Laptop Computer running the software listed below is required for the course: Philips Service Engineers - Laptop computers must be loaded with the latest IST Description Software, Acrobat Reader 7 or higher, InCenter Offline Utilities and Internet Explorer 6 or higher. He/She should have access to the InCenter CT modality which is determined by the account security profile created by the local IST administrator. Service Laptops should be running at least Windows XP.

He/She should be capable of handling measuring equipment and PCB in an ESD-safe way.

Course Aims:

During this course the engineer will be provided with knowledge on:

- Configuration
- Pre-installation aspects
- System functioning on block diagram level
- Image quality aspects
- Safety aspects

He/she will learn how to:

- Install and configure the system
- Install system software
- Operate the system
- Run diagnostic (test)programs

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
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- Calibrate the system
- Check system performance
- Perform PM and CM according to the Service philosophy

Key Topics:

The following key topics will be covered in this course:

- System Installation
- System operation and basic scanning procedures
- General Safety precautions
- System Calibration
- System Planned Maintenance
- System Troubleshooting and repair
- System Networking

* 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.

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

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