

VA MEDICAL CENTER B50106
V. A. Medical Center
RECEIVING WAREHOUSE
135 EAST 38TH STREET
ERIE, PA 16504

P. O. # 562-850106

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**AQUILION PRIME FAST WHOLE BODY
CT SCANNER WITH AIDR 3D**

AQUILION PRIME HIGH CAPACITY
EXTENDED COUCH

CT SCANNER AQUILION PRIME WITH
HIGH CAPACITY EXTENDED COUCH

ACCESSORY KIT FOR HIGH CAPACITY
COUCH

CT PHANTOM

CHAIR WITH ADJUSTABLE ARMS AND
BACK (Qty 2)

CABLE CATEGORY 5E/RJ45 5M

CABLE CATEGORY 5E/RJ45 35M

CONSOLE DESK 65" X 36" X 30"

PRESENTED TO: (COMPLETE LEGAL NAME)

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SERVICE MODEM CABLE (Qty 2)

NON-CORROSIVE FLOOR LEVELING
EPOXY KIT

SURECONNECT DICOM CONNECTIVITY
PACKAGE

DICOM 3 STORAGE SERVICE CLASS
PROVIDER (SCP)

DICOM 3 MODALITY WORKLIST
MANAGEMENT (MWM) SERVICE CLASS
USER (SCU) SYSTEM

DICOM 3 PERFORMED PROCEDURE STEP
SCU

DICOM 3 QUERY/RETRIEVE SCP

DICOM 3 QUERY/RETRIEVE SCU AQ/MP

DICOM 3 STORAGE COMMITMENT SCU
SOFTWARE

PRESENTATION OF GROUPED
PROCEDURES (PGP) AND EXAM HARD
SPLIT

72 KW X-RAY HIGH VOLTAGE GENERATOR
600 MA UPGRADE

CONSOLE UPS FOR 2ND/3RD GEN
AQUILION PRIME

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WESEMANN UPS U10000 FOR AQUILION
2ND/3RD GEN PRIME INCLUDING
CONNECTION CABLES

WESEMANN UPS U10000 CONNECTION KIT
FOR PRIME

TOSHIBA POWER DISTRIBUTION UNIT

PRIME DETECTOR UPGRADE KIT (40 TO 80
DETECTOR ROWS)

ULTRA-FAST IMAGE RECONSTRUCTION
KIT FOR AQUILION PRIME & VELOCT

CONEXACT DOUBLE SLICE KIT FOR PRIME
80 TO 160 SLICE UPGRADE

CONEXACT DOUBLE SLICE KIT

SURESUBTRACTION FOR AQUILION

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- Includes 12 Month Service Warranty.

AQUILION PRIME FAST WHOLE BODY CT SCANNER WITH AIDR 3D

The Aquilion PRIME-SERIES-S, with Adaptive Iterative Dose Reduction 3D (AIDR 3D) is a scalable 40 to 160*¹ & *² slice with the technology of the Aquilion™ ONE built in. The speed and clinical accuracy of this technology offers significant benefits to patients – especially trauma, pediatric and critically ill patients. This technology enables physicians to more clearly visualize internal injuries and disease in less time.

*1-The coneXact double slice upgrade is required to obtain additional reconstructed slices in a single axial rotation.

*2- The high coverage upgrade is required for 40 mm coverage at 0.5 mm

It includes Aquilion's best-in-class, 0.5 mm detector elements with a new scalable quantum detector covering up to 40 mm of anatomy every 350 msec.

The Aquilion PRIME-SERIES-S is capable of reconstructing 40, 80*¹ or *² or 160*¹ & *² unique slices with every rotation of the gantry and incorporates a host of ergonomic and automated features to streamline productivity and deliver the highest quality images while lowering radiation dose. Aquilion PRIME-SERIES-S also achieves consistently superior image quality with industry-leading, low-contrast resolution of 2 mm at 0.3% and high-contrast resolution of 0.35 mm.

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*1-The coneXact double slice upgrade is required to obtain additional reconstructed slices in a single axial rotation.

*2- The high coverage upgrade is required for 40 mm coverage at 0.5 mm
Single-Energy Metal Artifact Reduction (SEMAR)

SEMAR utilizes a sophisticated reconstruction algorithm to reduce artifacts caused by metal while improving visualization of the implant, supporting bone and adjacent soft tissues* for an accurate diagnosis. SEMAR can be applied to a routine low-dose scan, combined with AIDR 3D to achieve the best possible image quality without the need for additional exposure dose or a dedicated scan procedure. Toshiba will include SEMAR with each system as a value add. SEMAR is normally valued at \$50,000.

** Bone structures near the metal-tissue interface may become distorted. Metal artifacts may not be completely removed in areas near the metal material. Comparison with the original images is suggested when performing diagnosis using SEMAR images.*

Prerequisite: Requires Version 6.0 software. Not available on the Aquilion Large Bore or RXL.

Ultra-Fast Workflow with Patient Comfort

The Aquilion PRIME-SERIES-S boosts productivity with fast scan and image reconstruction times while offering comfort features such as the wide bore (78 cm) and (optional) large table capacity (660 lbs) for patients of all sizes pediatric to bariatric.

Aquilion PRIME-SERIES-S makes exams easier for all patients. The routine fast scans made possible by the quantum detector also mean short breath-holds for better patient compliance.

Dose-Reduction Features

Aquilion PRIME-SERIES-S reinforces Toshiba's guiding principle of ALARA for every patient. To achieve this, Aquilion PRIME-SERIES-S has an array of adaptive and integrated dose-reduction strategies that are implemented at every stage, from patient registration to image reconstruction. In addition,

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patient dose reduction is integrated into the protocol software, so it activates prior to turning on the x-ray beam.

Active Collimation

Active collimation synchronizes the width of the x-ray beam at the ends of the scan range to the clinically useful area needed for image reconstruction. By eliminating exposure that is not used for diagnosis, patient dose is reduced.

Adaptive Iterative Dose Reduction 3D (AIDR 3D)

AIDR 3D is the third generation in the evolution of Toshiba's iterative reconstruction technology. AIDR 3D is an iterative algorithm intended to reduce pixel noise from the original data, the results analyzed, and the process repeated until the target level of noise-reduction is achieved. This iterative algorithm is superior in reducing background noise while preserving diagnostic information compared to non-iterative approaches.

AIDR 3D can be integrated into all acquisition modes for routine clinical use and is able to reduce pixel noise magnitude in a way that may result in dose reduction.

SUREExposure3D (x, y, z automated mA modulation software)

Toshiba's SUREExposure3D software automatically adjusts the mAs based on patient anatomy to adapt to and compensate for changes in attenuation level.

Auto Couch Height Positioning Compensation

SUREExposure will compensate for incorrect patient positioning to ensure accurate body size calculation and exposure dose. This avoids incorrect positioning errors in patient size calculation.

NEMA XR 25, XR 26 and XR 29

Aquilion PRIME-SERIES-S meets the National Electrical Manufacturers Association's (NEMA) Medical Imaging & Technology Alliance (MITA) standards XR 25, XR 26 and XR 29.

- MITA XR 25 Computed Tomography Dose Check

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- Includes dose alerts and allows facilities to set dose notification values.
- MITA XR 26 Access Controls for Computed Tomography: Identification, Interlocks, and Logs
 - Provides access control ensuring only authorized operators can alter controls of the CT equipment.
- MITA XR 29 Standard Attributes on Computed Tomography (CT) Equipment Related to Dose Optimization and Management
 - Smart Dose standard bundles four important features to ensure that equipment produces high-quality diagnostic images while supporting patient safety:
 - DICOM Structured Reporting
 - CT Dose Check
 - Automatic Exposure Controls,
 - Pediatric and adult reference protocols.

Components

- Large-aperture 78 cm, slip-ring gantry
- High-power 72 kW x-ray generator and tube
- Ergonomic and scalable patient couch
- Microsoft Windows 7 operating system
- Ergonomic operator controls
- 3D and 4D software for display console
- High-capacity hard disks
- Image data transfer link
- Custom patient table pad and positioning accessories
- Operator manuals and quality-assurance phantoms

KEY FEATURES

Routine Fast Scanning

The Aquilion PRIME-SERIES-S is capable of reconstructing 40, 80*¹ or *² or 160*¹ & *² unique slices with every rotation of the gantry and incorporates a

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host of ergonomic and automated features to streamline productivity and deliver the highest quality images while lowering radiation dose. Aquilion PRIME-SERIES-S also achieves consistently superior image quality with industry-leading, low-contrast resolution of 2 mm at 0.3% and high-contrast resolution of 0.35 mm.

Patients benefit from the extremely short exam times. Fast scan acquisition can also be used to meet the demands of helical CTA examinations for vascular imaging.

Optimal Space Utilization

The Aquilion PRIME-SERIES-S has only four main components: gantry, couch, console and transformer. The recommended minimum CT room size is only 14.8 square meters with the compact couch.

SURETechnologies

Improve workflow with real-time imaging, which provides the ability to view a scan at 12 frames per second (512x512) during the acquisition. This allows the operator to rapidly assess if additional images are needed.

The following are standard features on Aquilion PRIME-SERIES-S:

- SUREExposure - Dose modulation based on scanogram
- SUREStart - Real-time contrast detection at 12 fps. With SUREStart there is no need to perform a timing bolus, saving up to 30 cc's of contrast.

Easy Operation

Aquilion PRIME-SERIES-S is easy to operate using the 19-inch LCD monitor, mouse and ergonomic keyboard. Scan automatically by programming procedures with eXam Plan and vocal instructions through VoiceLink™.

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EQUIPMENT COMPONENTS

eVolution Gantry with iStation

The PRIME-SERIES-S eVolution Gantry possess many work flow advantages from the iStation to the gantry controls that are accessible from the gantry or the scan console.

iStation

The iStation is a 12-inch LCD screen that uses video and voice prompts to ensure patient compliance during scanning. This is especially useful during pediatric scanning as the iStation displays a video of a small child that tells the patient when to raise their arms, when to hold their breath, and so on. These child-friendly instructions, coming from a child figure helps assure compliance. iStation also allows the user to visualize the patient's ECG waveform when acquiring ECG-gated exams.

eVolution Gantry

- Hybrid slip-ring technology conserves unused electricity
- Gantry tilts ± 30 degrees
- Large aperture: 78 cm
- Five scan fields of view
- Wide range of scan times provides greater flexibility for optimal image quality
- eVolution touch panel – many functions can be controlled in-room for quick setup and improved workflow

Console – Acquire and Display

- Powerful, ergonomic console computer handles display, image feed, filming and transferring multi-planar reconstructions with the same interface used for axial images.
- InstaView - Full matrix real-time image review
- Capable of true simultaneous scanning, retrieving, archiving and filming without interruption using the optional second console. This is a genuine multi-tasking system for multi-slice and volume data sets.

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- Powerful reconstruction tower with CPUs and hard drives with RAID 5 controllers.
- Includes user-friendly keyboard, mouse, monitor, CPU cabinet/reconstruction enclosure.

MegaCool™ X-ray Tube

This compact, high-performance tube is designed to minimize tube-cooling delays with heavy patient loads at all scan times. It was built on the proven, anode-grounded, MegaCool tube technology used on every Aquilion multi-slice CT.

Other features include:

- Dual focal spots
- Anode capacity of 7.5 MHU
- Dissipation rate of 1,386 kHU per minute maximum

Quantum V Detectors and DAS

- Unique Toshiba ceramic, solid-state detector array and DAS
- Ultra-fast DAS to acquire large-volume data
- Solid-state detector array with 0.5 mm detector elements
- Low-contrast resolution of 2 mm at 0.3% with 17.2 mGy (with AIDR 3D)

High-Power Generator

Robust, high-voltage circuits that generate 72 kW at 600 mA, standard on all PRIME-SERIES- S systems (exception PRIME-S-CHOICE). This provides support for the 7.5 MHU x-ray tube and allows helical scans of up to 100 seconds.

Multiple kV Selections: 80, 100, 120 and 135 kV.

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NETWORKING

- DICOM 3.0 Conformance Standards
- DICOM 3.0 Modality Worklist Management
- DICOM 3.0 Performed Procedure Step SCU
- DICOM 3.0 Enhanced CT Image Storage and Transfer
- DICOM 3.0 Presentation of Grouped Procedures (PGP) and Study Split
- DICOM 3.0 (Storage SCU)
- DICOM 3.0 Query/Retrieve Service Class Provider (SCP)
- DICOM 3.0 (Print SCU)

HELICAL SCAN & FUNCTIONALITY

MultiView

Built into protocol for fast multi-planar reconstruction in batch mode specifically for multi-slice data sets. Coronal, sagittal and axial images are created and displayed for immediate viewing.

3D Imaging on Console

Provides excellent image quality with surface-shaded renderings and volume-rendered 3D images. Provides zooming and panning over the 3D surface and performs distance measurements.

Other features include:

- Easy 3D
- Bone removal
- Maximum intensity projection (MIP)
- Minimum intensity projection
- Intensity volume rendering

Quantitative Analysis

- Profile display of CT numbers along a selected line in the axial plane

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- Distance measurement and display
- CT number display
- Histogram display

eXam Plan Protocols

- 600+ eXam plan protocols that can be adjusted while scanning
- Four preset reconstructions

Archiving

- Can be automated with each eXam plan
- Raw data and image data can be protected to prevent deletion

Filming

- Auto filming can be set as part of the eXam plan
- Images are displayed in 512x512 or 1024x1024

CUSTOMER CARE SERVICES

Developed with customer input, Toshiba's innovative support programs have resulted in increased customer satisfaction. These include the following:

InTouch Center®

This centralized service facility provides applications and service support for customers 24 hours a day, seven days a week.

InnerVision™ Plus

Remote system diagnostics are available around-the-clock to help identify problems and provide potential solutions before care is interrupted or an engineer can arrive. InnerVision Plus is included at no charge and connected while any CT is under warranty, or any service agreement including Full Service, In-House Support, Partnership and/or VISN Master Service Agreement

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InTouch Agreements

Based on customer needs, InTouch customer agreements can range from an a-la-carte approach to full-security agreements that provide complete system protection.

Technical Assistance

Customer support specialists are available 24/7 to help resolve technical issues in real time. Application support specialists are also available to assist staff with protocol and image-quality issues.

Local Customer Teams

A single call mobilizes a local team of Toshiba customer engineers. With an average of 10 years of Toshiba experience and 105 hours of specialized training, they can resolve almost any performance issue.

Parts Support

A complete inventory of product parts is ready for shipment when and where they are needed, any time of day or night.

Image Maker Express

Image Maker Express is an online marketing resource that helps Toshiba customers build demand for imaging service by growing their referring physician and patient relationships. Image Maker Express includes:

- Easy-to-use marketing resources and tools developed exclusively for Toshiba customers to bring together effective marketing strategies and tactics.
- A wealth of collaterals and content to create high-quality brochures, print ads and more to help market the Toshiba customer's new imaging capabilities.

Image Maker Express Materials available include:

- Product images and logos
- Clinical images and videos

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- PowerPoint presentations and promotional videos
- Brochure samples
- Customizable press releases and media tips
- Marketing strategy tutorials

***Offerings may vary per product**

APPLICATION TRAINING

Each system includes a three phase education program and the industry exclusive Performance Pro guarantee.

Performance Pro is a unique approach to education utilizing blended learning with the promise of technical proficiency and optimal productivity. If for any reason the customer is not satisfied with any portion of the training, Toshiba will conduct that portion of the training again, at no charge.

Choice of two (2) Medical Imaging Consultants self-study programs; The CT CrossTrainer and/or The CT Registry Review Program.

The CT CrossTrainer is designed to acquaint the less-experienced technologist with important CT principles, technology and clinical exams. The program consists of 6 comprehensive StudyModules that have been accredited for 17 Category A CE credits; credits are earned by passing a post test for each StudyModule.

The CT Registry Review Program is designed to help the experienced CT technologist prepare to pass the ARRT's post-primary exam in CT. The course consists of 8 comprehensive StudyModules that have been accredited for 19 Category A CE credits; credits are earned by passing a post-test for each StudyModule.

Phase I: Two (2) attendance vouchers for a four (4) day technologist-focused course held at the Toshiba Institute of Advanced Imaging in Irvine, California. This course provides the fundamentals of operating Toshiba's Aquilion CT system, including a variety of CT scans performed with the latest dose reduction techniques. This course includes in-depth lectures and

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hands-on training. At the completion of the course, the attendee will be proficient in the following applications and operations: basic to advanced CT imaging console use, system menus, system default scan protocols, utilization of reconstruction parameters, post-processing image data, and troubleshooting image quality. This course is all inclusive of the following: tuition, airfare (booked by Toshiba), lodging, and meals. Accredited for CE credits by the ASRT Education Foundation.

Phase II: An initial thirty-two (32) hours, of on-site education will be provided at the customer facility following system go-live. This training is provided for up to four (4) imaging professionals including the two (2) that attended Phase I training, to focus on maximizing scanning techniques and protocols. Training is scheduled consecutively, Monday through Friday, with Monday mornings and Friday afternoons scheduled as travel time for the applications specialist. CE credits are earned by participants that attend the Phase II training event in its entirety.

Phase III: An additional twenty-four (24) hours of on-site education will be provided for the same four (4) imaging professionals, which participated in Phase II training, approximately 6-8 weeks following installation to optimize staff proficiency and system productivity.

Note: Toshiba personnel are not responsible for scanning patients, patient safety, any actual patient contact, or operation of equipment during education sessions. Toshiba will only demonstrate proper equipment operation.

The training is offered to the Customer at no charge, providing that it is completed no later than one (1) year after the warranty start date.

Additional classroom and onsite training is available for purchase.

Applications support is available by phone on the toll-free ASSIST line, 1-800-521-1968.

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COMPONENT SUMMARY:

CA-9400S-EH-ND-OC

AQUILION PRIME HIGH CAPACITY EXTENDED COUCH

CT SCANNER AQUILION PRIME WITH HIGH CAPACITY EXTENDED COUCH

The PRIME High Capacity Extended Patient Couch provides improved patient positioning while supporting the patient. The entire unit moves vertically and the top moves longitudinally. In an emergency, the couch top can be pulled out manually with very little effort. The couch top can also be lowered to a minimum height of 330 mm (12.99 inches) from the floor, facilitating transfer of the patient from a low bed or stretcher.

COMPONENTS

- 47 cm wide, metal-free couch top
- Horizontal stroke of 2,390 mm and a scanning range of 2,000 mm for tall patients
- High-precision couch-top positioning is possible from the integrated console or by manual operation from the control panel with clear digital readouts provided on the gantry.
- Large patient capability (660 lbs)

ACCESSORY KIT FOR HIGH CAPACITY COUCH

Includes each of the following items:

- Rolled Edge Foot Extension Pad
- Wide & Medium Security Straps
- Chin and Forehead Straps
- Adult Head Rest Pads (Medium and Large)
- Tilt Wedge
- Knee Support Wedge
- Coronal Head Support
- Table Pad

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- Protective Table Covers (Box of Four)
- Detachable Rail 77"

CT PHANTOM

Measures image quality to ensure compliance to Toshiba standards for:

- High-contrast resolution
- Low-contrast resolution
- Slice thickness
- Noise
- Contrast scale

CHAIR WITH ADJUSTABLE ARMS AND BACK (Qty 2)

CABLE CATEGORY 5E/RJ45 5M

CABLE CATEGORY 5E/RJ45 35M

CONSOLE DESK 65" X 36" X 30"

Measures 65" x 36" x 30"

SERVICE MODEM CABLE (Qty 2)

NON-CORROSIVE FLOOR LEVELING EPOXY KIT

SURECONNECT DICOM CONNECTIVITY PACKAGE

This package is designed to meet the DICOM needs of most departments.

COT-32D DICOM Modality Worklist Management

Allows the CT system to receive patient demographic data from an HIS/RIS system in conformance with the DICOM 3.0 standard.

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COT-33D (MPPS)

In combination with COT-32D (MWM), MPPS provides notification of the start and end of the examination back to an RIS that supports DICOM MPPS (SCP). Exam record and patient information can also be sent to the RIS.

COT-35D Query/Retrieve (SCU) The Q/R Service Class User (SCU)

Allows a device to initiate a request for patient, study, series and/or image information from the provider device in accordance with the DICOM 3.0 standard.

COT-41D Storage Commitment

Verifies image transfer and storage.

- Allows operator to determine if data is stored correctly at the PACS server, avoiding unintentional image deletion.
- Improves efficiency of image management operations.
- Provides fail-safe method to prevent image data from being deleted unintentionally even in the event of a communication failure (during image transfer or during a storage verification response).

COT-44A PGP Study Split

PGP is an Integrated Health Enterprise (IHE) standard designed specifically with multiple examination orders (Requested Procedures) that can be performed in single CT examination.

- Provides preset and automatic transfer solutions for multiple exams from a single CT exam.
- Facilitates clinical viewing of images and reporting of individual requested procedures.
- Use with PACS systems that are IHE PGP compliant.
- Use the study split option for PACS systems that are not yet IHE PGP compliant to physically split images into multiple examinations.

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Note: This option does not include a DICOM gateway for the HIS/RIS system.

DICOM 3 STORAGE SERVICE CLASS PROVIDER (SCP)

- Exchanges DICOM 3.0 compliant image objects on a network
- Allows the system to perform functions requested by a Storage Class User (SCU) device

DICOM 3 MODALITY WORKLIST MANAGEMENT (MWM) SERVICE CLASS USER (SCU) SYSTEM

Allows the CT system to obtain details of patients and scheduled examinations electronically from the HIS/RIS system, avoiding the potential mistakes of manual entry.

Note: This option does not include a DICOM gateway for the HIS/RIS system.

DICOM 3 PERFORMED PROCEDURE STEP SCU

In combination with COT-32D (MWM), MPPS provides notification of the start and end of the examination back to an RIS that supports DICOM MPPS (SCP). Exam record and patient information can also be sent to the RIS.

DICOM 3 QUERY/RETRIEVE SCP

- Allows a Storage Class User (SCU) to query the SCP device
- Enables user devices to retrieve patient, study, series and/or image information in conformance with the DICOM 3.0 standard

DICOM 3 QUERY/RETRIEVE SCU AQ/MP

Allows a device to initiate a request for patient, study, series and/or image information from the provider device in accordance with the DICOM 3.0 standard.

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DICOM 3 STORAGE COMMITMENT SCU SOFTWARE

Verifies image transfer and storage.

- Allows operator to determine if data is stored correctly at the PACS server, avoiding unintentional image deletion.
- Improves efficiency of image management operations.
- Provides fail-safe method to prevent image data from being deleted unintentionally even in the event of a communication failure (during image transfer or during a storage verification response).

PRESENTATION OF GROUPED PROCEDURES (PGP) AND EXAM HARD SPLIT

PGP is an Integrated Health Enterprise (IHE) standard designed specifically with multiple examination orders (Requested Procedures) that can be performed in a single CT examination.

- Provides preset and automatic transfer solutions for multiple exams from a single CT exam.
- Facilitates clinical viewing of images and reporting of individual requested procedures.
- Use with PACS systems that are IHE PGP compliant.
- Use the study split option for PACS systems that are not yet IHE PGP compliant to physically split images into multiple examinations.

72 KW X-RAY HIGH VOLTAGE GENERATOR 600 MA UPGRADE

This kit is designed to provide a high power output (maximum tube current: 600 mA).

NOTE: For the Aquilion PRIME TSX-303A ONLY.

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CONSOLE UPS FOR 2ND/3RD GEN AQUILION PRIME

Wesemann 3-phase, 10 kVA uninterruptible power supply and connection kit for Aquilion PRIME console.

WESEMANN UPS U10000 FOR AQUILION 2ND/3RD GEN PRIME INCLUDING CONNECTION CABLES

WESEMANN UPS U10000 CONNECTION KIT FOR PRIME

TOSHIBA POWER DISTRIBUTION UNIT

The PDU is engineered to address common power problems found in the hospital environment and to isolate the CT system components to meet IEC 60601-1 Third Edition requirements. This is important to assure optimal reliability and performance of CT systems. Customer is responsible for complying with Toshiba's site specifications for electrical power.

This device provides most of the electrical site preparation requirements of Toshiba CT systems. The PDU contains a low impedance isolation step-down transformer with a shielding plate between primary and secondary.

Voltage Conversion

Wiring costs are significantly reduced since the PDU accepts a single, 480V delta input, supplying 200V to the generator and the various other parts of the system.

Distribution

The PDU comes prepackaged with the distribution breakers needed for each system feed. Having all system breakers in one location also makes it easier for service personnel to remove power.

Installation

Installation is much faster, more predictable, and less expensive with a factory-assembled and tested system.

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PRIME DETECTOR UPGRADE KIT (40 TO 80 DETECTOR ROWS)

This Toshiba PRIME upgrade kit will expand the Aquilion PRIME Quantum 40 row detector to the full 80 detector row capability of generating 80 x 0.5 mm slices per rotation.

This upgrade allows a number of operational and clinical applications that enhance workflow and increase examination throughput.

Benefits of upgrading the Aquilion PRIME S-Series CT Scanner:

The Aquilion PRIME with 80 slice capability includes Aquilion's best-in-class, 0.5 mm detector 80 channel quantum detector covering up to 40 mm of anatomy every rotation.

The speed and clinical accuracy of this technology offers significant benefits to patients - especially trauma, pediatric and critically ill patients. This technology enables physicians to more clearly visualize internal injuries and disease in less time.

Ultra-Fast Workflow with Patient Comfort

The Aquilion PRIME Series with 80 detector row capability boosts productivity with fast scan and image reconstruction times while offering comfort features for patients of all sizes. The routine fast scans made possible by the 80-row detector also mean short breath-holds for better patient compliance.

ULTRA-FAST IMAGE RECONSTRUCTION KIT FOR AQUILION PRIME & VELOCT

With up to 60 fps, this high-speed reconstruction kit ensures that the images are ready for evaluation at the earliest possible time.

The high scanning speed also reduces motion blur, thus reducing the amount of contrast required.

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CONEXACT DOUBLE SLICE KIT FOR PRIME 80 TO 160 SLICE UPGRADE

This upgrade kit adds coneXact double slice technology to the Aquilion PRIME platform, enabling 160 unique images reconstructed per axial scan.

Key Enhancements

Utilizing Toshiba's proprietary coneXact algorithms developed for the Aquilion ONE Dynamic Volume CT, this double slice reconstruction package enables volume reconstruction in double density, effectively creating 0.5mm slices at every 0.25mm. The coneXact algorithm achieves this by first reconstructing data sets as a volume, and then using information from oblique cone angle projections to extract distinct axial slices in between detector planes without resorting to interpolation or upsampling.

A summary of benefits includes:

- More true-to-original reconstruction in MPR and 3-D rendered images
- Increased detail in the z-direction - ideal for IAC and extremities
- Reduction of partial volume effects leading to more detailed images while maintaining superior low contrast detectability

Requires CGS-55A/1B PRIME Detector Upgrade Kit (40-80 Detector Row)

CONEXACT DOUBLE SLICE KIT

SURESUBTRACTION FOR AQUILION

This neurovascular CT digital subtraction angiography (CT DSA) software, with ^{SURE}Subtraction Carotid, improves workflow and enhances diagnostic accuracy through greater image clarity. This fully automated non-rigid registration algorithm digitally subtracts bone from the intra- and extra-cranial vessels including carotid vessels providing superior clinical images in a fraction of the time required for manual subtraction.

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Enhanced Diagnostics

- Subtraction volume is completely free of bone, providing unsurpassed subtraction CTA studies of the brain and neck
- ^{SURE}Subtraction Carotid- provides superior visualization of the vertebral arteries internal and external carotids
- Easily achieves arterial and venous segmentation
- In just seconds, creates 3DVR and MIP images with 360° left-to-right and head-over-heels tumble views

Enhanced Workflow

- Less than 5 minutes to load, process and display images
- Subtracted dataset is still in DICOM format
- Maximize productivity with programmable features
- Streamline patient throughput with a simple 3-step process
- No special head immobilization required

Note: ^{SURE}Subtraction Carotid requires V4.74 or later

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OPTIONS

TECH ASSIST LATERAL TABLE SLIDE FOR AQUILION PRIME HIGH
CAPACITY (660 LB) COUCH