

VAMC SEATTLE, WA
PO# 663-B32021

Line #	Description	Qty
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1	NM ISP V5 - HX Special	1
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To create the kind of smart clinical integration that often leads to enhanced patient outcomes, Philips has introduced the IntelliSpace Portal, a multimodality workspace that facilitates a higher level of collaboration among radiologists and referring physicians while streamlining imaging workflow. The IntelliSpace Portal uses advanced networking capabilities to facilitate collaboration among clinicians that may ultimately lead to faster, more accurate and informed patient care.

The IntelliSpace Portal is a multimodality thin-client applications server that turns virtually any PC that meets the minimal requirements into an advanced multimodality imaging system workspace that can support radiology, cardiology, oncology and other specialties' imaging needs. This allows radiologists and referring physicians - who are often burdened with scheduling conflicts - to review the results of multiple imaging modalities at their convenience in their preferred location. Until now, the most powerful visualization workstations were housed in the radiology department requiring a referring physician to make a special trip to radiology in order to view the advanced images so crucial to accurate patient diagnoses. With Intellispace Portal's advanced networking and thin-client technologies the access to powerful visualization and image processing is significantly enhanced

The IntelliSpace Portal v5 offers several exciting new features, including:

Access to optional new Nuclear Medicine applications:

- Integrated review application for all NM data i.e. planar, SPECT, SPECT/CT, PET/CT, PET/MR
- Advanced fusion and auto-registration support

Optional NM Planar & SPECT Processing

- Planar Gated, Whole Body, Pulmonary, Renal, Endocrine, Hepatobiliary, Gastric, Esophageal, Salivary
- JetPack App Suite
- AutoSPECT
- Daily QC and NEMA Suite

Optional NM Astonish Reconstruction (for Philips system) Access to optional Complete NM Cardiac Quantification Portfolio

- AutoQuant
- Invia Corridor4DM
- Emory Cardiac ToolBox

Scores of exciting additional clinical features and workflow enhancements throughout the CT, NM and MR applications originally introduced on IntelliSpace Portal v4.0

These also include access to optional new CT and MR applications such as:

- CT Liver Analysis
- CT EP planning
- CT Dental planning
- MR Permeability* (not for sale in the US)

IntelliSpace Portal delivers enterprise-wide multimodality display of CT, MR and Nuclear Medicine datasets. Proprietary technology streams display to the client over a LAN, WAN or any broadband internet connection through the hospital's VPN (virtual private network) without the need to necessarily download CT/MR or NM data to the client PC as 'heavy lifting' and complex processing of the data is done on the server.

Client Specifications:

Memory (RAM): 2GB available RAM. Recommended: 4 GB or above.

Memory (RAM) for NM 3rd party Apps: 4 GB RAM or above

Processor (CPU): Intel Core 2 Duo 1.8 GHz / AMD Athlon 64 1.8 GHz; (Recommended: Intel Core 2 Quad 2.4 GHz / AMD Phenom II X3 Triple core 2.8 GHz – or equivalents/higher)

Free Disk Space*: 3 GB or above (on Drive C)

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

Monitor:

- Minimal screen resolution: 1024x768. Recommended: 1280x1024 (or above)
- Screen Resolution for NM Apps: 1280x1024 (or above)

- Up to 3 MegaPixel monitors are supported
- 96DPI
- 24bpp (or higher) color depth monitors (no monochrome monitors)

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

Minimum Network adapter speed: 100 Mbit/s or above

LAN Network

Network bandwidth/latency (LAN): 100 Mbit/s or above, with latency <10ms

Home connection

- Network bandwidth/latency (for home connection): 5 Mbit/s or above, with latency <20ms
- Network bandwidth/latency for NM Apps (for home connection): 10 Mbit/s or above, with latency <20ms
- Network bandwidth/latency for NM 3rd Party Apps (for home connection) : 100MB/s with <10ms latency

Software Pre-Requisites:

- Supported OS:
- Windows XP SP2 (32 & 64 bit)
- Windows Vista (32 & 64 bit)
- Windows 7 (32 & 64 bit)
- Net Framework 3.5 SP1 and/or above

Additional Software Recommended (for optional features):

Adobe Acrobat Reader [for Report & Help]

Adobe Flash Player [for On-line Web Trainings]

Windows Media Player 9.0 or above [for saving Movies]

IMAPv2 [for Burning CD/DVD]

BrightView XCT Camera with PinPoint detectors with caudal-cephalic tilt- 9.5 mm (3/8") crystal

BrightView XCT is a general-purpose variable angle gamma camera using leading-edge SPECT detectors and CT-based localization and attenuation correction. BrightView XCT provides exceptional flexibility, low dose-high resolution CT localization, flexible breathing protocols with CT-based attenuation correction, enhanced nuclear medicine-centric workflow, and a platform for emerging molecular imaging agents. Integrated CloseUp technologies provide superior ability to maintain close proximity to the patient for optimized resolution.

PinPoint Digital Detectors

PET-based PinPoint technologies include digital detectors and electronics with advanced iterative positioning algorithms.

- 59 Photo-multiplier tubes interfaced to 59 A/D Converters
- Dual NaI, 54 cm x 40.6 cm (21.25" x 16") FOV detectors, 9.5 mm (3/8") thick crystal
- Enhanced resolution and uniformity detector specifications
- Energy independent performance up to 300 keV
- Useful detector energy range: 56 to 662 keV
- Digital real-time energy, linearity, and uniformity correction

CT-Based Localization and Attenuation Correction

A high resolution flat panel detector and x-ray tube are positioned in the same field-of-view as the SPECT detectors to allow for a highly integrated and compact SPECT/CT system.

- Low dose-high resolution localization
- Volumetric CT coverage of 14 cm in a 12-second breath hold
- Co-planar acquisition to allow CT and SPECT acquisition without table indexing
- Attenuation correction with flexible breathing protocols (breath hold or tidal breathing)
- Sub-mm isotropic voxels for optimized oblique angle viewing
- Nuclear Medicine centric workflow allowing planning of the CT from the P-scope
- Folding storage of the flat panel detector inside the system gantry, when desired
- Reconstruction computer (x86, dual 2.33 GHz Intel Quad Core Xeon, 4 GB DDR2 memory, nVidia 8800 GTX with 768 MB DDR3 memory)
- Minimum of 1250 GB hard disk space for reconstruction computer (250 GB for OS, 1000 GB in RAID 0 configuration for image data)

Highly stable open gantry design

BrightView XCT has an open gantry with 10-axis design to provide exceptional mechanical stability and precise center of rotation. Advanced robotics feature automatic set-up of gantry, detectors, collimators, and patient table for improved workflow; automatic, single button touch for bed imaging, quality control, upright imaging, and other positions.

- CardioTrac: Automated cardiac setup and with tracking zoom electronics to avoid patient truncation
- CloseUp imaging for highest resolution with minimized patient-to-detector distance
- Generous gantry aperture of 91.4 cm (36 inches) for imaging large patients and for unobstructed patient monitoring
- LCD touch screen camera interface on the gantry
- Ergonomically designed, wireless (RF) hand controller
- Caudal-cephalic tilt- +/- 15 degrees perpendicular to the axis of rotation

Auto Body Contouring

BodyGuard automatic body contouring for SPECT and TB applications uses a conductive method (electrical impedance) to "see" the patient and other conductive material, such as the imaging pallet and wet IV lines. User programmable scan distance.

Patient Table

BrightView XCT comes with a general-purpose imaging table with vertical and translation control. It is permanently mounted at the far end of the table from the gantry. The table may be easily pivoted to either side of the room. The table has an open design for easy patient loading, patient restraining, and positioning. The table supports a 227 kg (500 lbs) patient weight limit.

JETStream Acquisition System

The JETStream is a user and site configurable acquisition system with an easy to use graphical user interface. Patients may be pre-scheduled in the JETStream, linked to the desired acquisition protocol with the click of a single button. Other key features include:

- Smart Step: Provides tremendous workflow efficiency with customizable and automatic acquisition setup
- Up to 16 energy windows: Important for multi-radionuclide imaging, advanced scatter corrections, and molecular imaging agents
- Basic Concurrent Imaging: Ability to save a single acquisition step into up to 3 simultaneous datasets (each with independent matrix, zoom, energy windows, gating parameters, stop criteria, and data type) that provide the benefit of improved throughput, optimized image quality, and additional diagnostic data
- 48.3 cm (19") Flat LCD monitor (wall mounted or cart-based)
- Includes keyboard and trackball, or mouse
- Linux server (x86-64, 3.4 GHz Intel Pentium 4, 1 GB DDR2 memory minimum)
- Windows-based user console client. (X86-64 3.2 GHz Intel Celeron D, 1 GB DDR2 memory minimum)
- Minimum of 160 GB hard drive for server (60 GB for image data, 80 GB for list mode data)
- Minimum of 80 GB hard drive for client
- Recordable DVD drive

DICOM Export and Storage Commit are standard.

Compatibility tested with EBW-Nuclear Medicine Applications Suite.

Includes one (1) camera interface cabling and system installation.

Clinical Education Program for BrightView XCT Camera

NM EBW OffSite Education: Philips will provide one (1) technologist, as selected by customer, with in-depth didactic, tutorial, and hands-on training covering basic applications of workstation functionality. This class is a prerequisite to Handover OnSite Education. In order to provide trainees with the ability to apply their new knowledge most effectively, this class should be attended no earlier than two weeks prior to system installation. This twenty-eight (28) hour class is located in Cleveland, Ohio, and is scheduled based on equipment configuration, geography, and availability. Due to program updates, the number of class hours are subject to change without notice. Customers will be notified of current, total class hours at the time of registration. 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 989801292164 (NM Full Travel Package Offsite) is purchased with all Offsite courses.**

Handover OnSite Education: Philips Education Specialists will provide 28 hours of OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. The first 4 hours onsite will be spent configuring new equipment for specific clinical needs, as well as reviewing important safety features and quality procedures. Course content is intended to provide the framework for operational workflow and clinical applications as they pertain to your site specifically. Students should attend all 28 hours, and must include all Offsite education attendees. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process. 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.

Additional Handover OnSite Education

: Philips Education Specialists will provide twenty-four (24) hours of OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Course content is intended to provide the framework for operational workflow and clinical applications as they pertain to your site specifically. Students should attend all 24 hours, and must include all Offsite education attendees. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process. 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.

FollowUp OnSite Education: Philips Education Specialists will provide twenty-four (24) hours of Follow-Up Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. This education is recommended to be scheduled 8 to 12 weeks following Additional Handover Education. Course content is intended to provide continuation of previous week's handover, specifically to offer review and practice with workflow and clinical applications pertaining to the BrightView-XCT Camera. Students should attend all 24 hours, and must include all Offsite and handover education attendees. 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.

Recommendations:

To enhance customer satisfaction with the camera and workstation over the first year of use, **an additional FollowUp, 989801292154 (NM Add OnSite Clin Educ 16h)** should also be purchased and scheduled no later than three (3) months after installation. To maximize customer satisfaction with workstation software options, **989801292153 (NM Add OnSite Clin Educ 08h)** should be purchased for options 4DMSPECT, Syntegra, AQMD, AQ Xcelera, and JetPack. To assist customers in maximizing the potential of their workstation, **989801292354 (NM Advanced EBW OffSite 20h)** should also be purchased with corresponding **989801292446 (NM Partial Week Travel Package Offsite)**.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref#351352578353-101215

3

5.0 KVA UPS Power Conditioner

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5.0 KVA, 200~240 VAC (50/60 Hz) Auto Switch

System provides backup power for Nuclear Medicine procedures only. System does not provide backup power for the x-ray generator.

- APC Smart UPS RT 5.0 KVA , 208V
- Input voltage range of 160-280 V
- Input Frequency 50/60 Hz +/- 5 Hz (auto sensing) and single phase

- Input power is connected to the unit via 30-amp twist-lock plug (L6-30P)
- Two output receptacle (L6-30R) and two (L6-20R) provide 200, 208, 220, 230 and 240VAC (selectable) power
- Self-diagnostics and front-panel status display
- Modular design enables easy usage
- Manufacturer's standard two-year limited warranty

4 UPS Cable Kit for XCT 1

Cables required for the installation of a UPS with a BrightView XCT system.

5 BrightView XCT Loc Kit- 1
English

BrightView XCT localization kit includes keyboard, system labels, GUI software, Quick Reference Guide, Release Documents, and electronic copy of User Manual in English

6 Dual Mntr Cntrl Rm & In-Rm 1
Cntrl (No Lead Shield)

Option to support a separate control room for remote SPECT and CT acquisition on the acquisition system and includes a small desktop-based CT acquisition console. Used in combination with either wall-mount or cart-based acquisition system located in the camera room for only single photon acquisition.

7 Cart-Based Acquisition 1

BrightView XCT mobile cart flat LCD monitor for the acquisition station

8 Seismic Kit for BV X and XCT 1

Seismic plate for installations in sites that have seismic installation requirements.

9 BV XCT Premium Comfort Kit 1

Premium patient comfort kit includes:

- Memory foam pallet pad
- Wide Velcro body wrap
- Premium IV pole
- SPECT shoulder support
- Knee support wedge
- Total Body arm boards
- Slicker to improve large patient comfort during pallet indexing

10 IVY BIOMEDICAL CARDIAC 1
GATE

IVY Biomedical Cardiac Gate

ECG gating system for Medical Imaging workstation.

System provides 7" CRT display of ECG and trigger indicator with variable gain control that automatically adjusts to individual ECG amplitude.

System includes 6-foot 3 ECG cable.

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| 11 | XCT LEHR Collimator Pair | 1 |
| | Low-energy (140 keV) high-resolution collimator pair with exchange cart for semi-automatic and simultaneous exchange of both collimators. | |
| 12 | XCT MEGP Collimator Pair | 1 |
| | Medium energy (300 keV) general-purpose collimator pair with exchange cart for semi-automatic and simultaneous exchange of both collimators. | |
| 13 | Intrinsic 4-Bar Phantom | 1 |
| | Intrinsic and extrinsic 4-Bar quadrant phantom: each model contains four sets of lead bars measuring resolution at 0.4, 0.3, 0.25, and 0.2 cm (1/6, 1/8, 1/10, 1/12 inch) | |
| 14 | BrightView XCT User Manual-
ENG | 1 |
| | Printed English language fully illustrated Instructions for Use manual for BrightView XCT | |
| 15 | PASY,GD-153, 100uCi CAPS | 1 |
| | The Gd-153 point sources are used in various calibration procedures for Precedence and BrightView XCT | |
| 16 | SPECT | 1 |
| | SPECT | |
| 17 | IntelliSpace Portal DX | 1 |
| | IntelliSpace Portal DX, ideal for department-sized performance of approximately 2-5 concurrent users, is designed to create smart clinical integration that often leads to enhanced patient outcomes. It is a thin-client applications server that turns virtually any PC that meets the minimal requirements into an advanced multimodality imaging system workspace that can support radiology, cardiology, oncology, neurology, orthopedics, and other specialties' imaging needs, thereby streamlining imaging workflow. IntelliSpace Portal uses advanced networking capabilities to enable collaboration among clinicians that may ultimately lead to faster, more accurate and informed patient care. Clinicians can review the results of multiple imaging modalities - including studies acquired from multiple vendors' imaging equipment -- at their convenience in their preferred location. Until now, the most powerful visualization workstations were housed only in the radiology department, requiring a referring physician to make a special trip to view advanced images so crucial to accurate patient diagnoses. With Intellispace Portal's advanced networking and thin-client technologies the access to powerful visualization and image processing is significantly enhanced. | |

The IntelliSpace Portal offers powerful capabilities, both standard and optional. Standard capabilities include:

- Thin-client architecture and multivendor compatibility that makes image data and applications available anywhere for all CT, MR, Nuclear Medicine images
- Guided Task workflow walks users through each processing stage from start to finish
- Use of bookmarks, interactive snapshots and other convenient tools to increase efficiencies and

minimize training needs

- Unlimited number of client installs: number of concurrent users only subject to available server resources
- Performance-based licensing eliminates the need for purchasing a fixed set of licenses: DX configuration is modeled for a thin-client solution throughout a department, maintaining optimal performance even when as many as 5 users are concurrently using IntelliSpace Portal's processing, viewing and advanced clinical applications tools
- Multimodality Viewer for display of CT, MR and Nuclear Medicine datasets - standard
- Smart MR Viewing, smart linking, cine movie loop for MR datasets
- Multimodality Fusion: PET-CT, SPECT-CT, NM-CT, CT-CT, MR-MR and CT-MR
- Automatic Registration: PET-CT, SPECT-CT, CT-CT and MR-MR
- PET/CT Alpha blending and 2D/3D SUV calculations
- Display of multi-frame secondary captures
- 3D Volume rendering, MIP, VIP, minIP, SurfaceMIP
- Slab Review capabilities including regional investigation and curved MPR
- Volume Explorer: for instant and interactive seed-growing 3D segmentation
- "Glass View" to display bony structures in relation to 3D volumes
- Comprehensive DICOM Printing ("Filming")
- Dual monitor support -- for color monitors.
- DICOM & IHE compliance
- Supports PACS integration

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

Key specifications and requirements:

Server hardware specifications for Tower or Rack configuration:

- Dell PowerEdge T620 Tower Chassis or R620 Rack mounted server
- 2x Intel Xeon E5-2667 Processor 2.9 GHz, 6 Cores
- 32 GB memory
- 3x 600GB SAS 10k 2.5" HD (RAID 5 configuration)
- Power Supply: 110-240 Volts - redundant hot-plugs
- 1.2TB total storage

Server software specifications

- Windows 2008 R-2 Server 64-bit edition.
- Philips IntelliSpace Portal server software, including: Proprietary Portal server application
- User management application for managing user database
- McAfee antivirus software provided by Philips

Networking:

- TCP/IP protocol only Static IP address Security:
- HIPAA compliance
- DIACAP compliance
- Portal Server access for authorized user only
- Access to the computer itself either using its console or by remote desktop
- Encrypted users/groups database file
- User management application available only to defined Portal administrators
- Encrypted transfer over the network of user name and password

information

- Audit trail
- Windows Firewall
- Network requirements:
- Gigabit connections recommended
- Domain based network environment recommended

Client Specifications:

Memory (RAM) minimum: 2GB RAM. Recommended: 4 GB or above.

Memory (RAM) minimum: 4GB RAM for clients also running PACS

Memory (RAM) for NM applications and/or when other applications are running in parallel

minimum: 4 GB RAM

Processor (CPU minimum): Intel Core 2 Duo 1.8 GHz / Intel Quad core 1.6 GHz / AMD Athlon 64 1.8 GHz;

Processor (CPU minimum) for NM Apps and/or when other applications are running in parallel

(e.g. PACS clients): Intel Core 2 Quad 2.4 GHz / AMD Phenom II X3 Triple core 2.8 GHz

Processor (CPU Recommended) : Intel Core 2 Quad 2.4 GHz / AMD Phenom II X3 Triple core 2.8 GHz - or equivalents/higher) Free Disk Space*: 3 GB or above (on Drive C)

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

Monitor:

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

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

Minimum Network adapter speed: 100 Mbit/s or above

LAN Network

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

Home connection

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

Software Pre-Requisites:

- Supported OS:
- Windows XP (32 & 64 bit) SP2 or above
- Windows Vista (32 & 64 bit)
- Windows 7 (32 & 64 bit)
- Windows 7 and Windows Vista require an administrative account for initial installation
- Net Framework 3.5 SP1 and/or above

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

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

19 SPECT AutoQUANT:1 User 2

- QPS: Quantitative Perfusion SPECT
- QGS: Quantitative Gated SPECT
- QBS: Quantitative Gated Blood Pool SPECT
- Normals Databases (TI-TI, Dual Isotope, MIBI-MIBI, VantagePro, Astonish, User- Definable)
Astonish Stress/Rest Sestamibi normal limits

Note: This option is available only on IntelliSpace Portal DX, HX, and EX. Maximum of 5 floating licenses can be ordered on DX and maximum of 10 floating licenses can be ordered on HX and EX.

Note: This option is not commercially available in the following countries: Croatia, Estonia, Greece, Kazakhstan, Latvia, Lithuania, Romania, Slovakia, Slovenia and Ukraine.

NM Review application that provides a comprehensive review and analysis environment for Planar, SPECT, SPECT/CT, and PET/CT studies

- NM Review application provides multimodality co-registration tools for automated 3D registration of multimodality studies (PET, SPECT, CT and MR). The following automatic co-registration methods are supported: Mutual information, cross correlation, and local correlation. It also

supports an interactive registration method based on fiducial points selected by the user

Prerequisite: IntelliSpace Portal V5 or higher

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NM Processing App Suite

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Provides a comprehensive analysis, and processing environment for Planar and SPECT studies on the IntelliSpace Portal.

NM Processing App Suite includes Renal, Lung, Bone /Whole Body, Cardiac (First Pass, Shunt and MUGA), Gastric, Liver, Gallbladder, Esophageal, and Thyroid/Parathyroid, applications. These applications are fully integrated with Viewing, Image and Curve Manipulation tools. The users can invoke these tools "when needed where needed". All applications support "state-of-the-art" protocol and preference management that allows the users to configure their workflow and usability "on the fly".

NM Processing App Suite includes also two licenses of JETPack, a complementary suite of organ-specific applications for general nuclear medicine developed within IDL(TM) programming environment.

AutoSPECT Pro provides for SPECT and SPECT/CT reconstruction workflows with a goal of reducing the number of user interactions through protocols. It integrates into one user interface, the following:

- Fast and fully automated reconstruction and reorientation software with motion correction
- SPECT/CT registration and fusion display with alpha-blending and triangulation to facilitate CT AC
- Image review with fusion display

AutoSPECT supports CT-based attenuation and scatter correction for the following radionuclides: Tc-99m, Tl-201, In-111, Ga-67, I-123, Lu-177 and I-131.

The QA Suite provides a comprehensive set of tools to perform daily and periodic QA.

Notes:

- 1) Two JETPack licenses are included with the NM Processing App Suite option on IntelliSpace Portal DX, HX, and EX. Additional JETPack licenses are available via the Add'l JETPack license option
- 2) For cardiac quantification/review, optional AutoQUANT, ECTb or Corridor4DM software is recommended.

Prerequisite: IntelliSpace Portal V5 or higher and NM Review

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NM Astonish Recon Suite

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Astonish is a family of advanced reconstruction algorithms to improve image quality in SPECT by modeling the characteristics of the imaging system and removing the resolution losses due to distance-dependent blurring.

- SPECT Astonish includes 3-D OSEM reconstruction and resolution recovery with user-controlled noise dampening SPECT reconstruction is provided for SPECT, gated SPECT and CT based attenuation correction protocols.
- SPECT Astonish supports CT-based attenuation and scatter correction for the following radionuclides: Tc-99m, Tl-201, In-111, Ga-67, I-123, Lu-177 and I-131
- Astonish Provides Enhanced image contrast and enhanced signal to noise ratio for sub-5mm resolution for SPECT reconstructed data.

Note: NM Astonish Recon Suite is compatible with the following Philips cameras only: CardioMD, Forte, BrightView, BrightView X, BrightView XCT, Precedence.

Prerequisites: IntelliSpace Portal v5.0, NM Review and NM Processing App Suite

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ICAP IX Portal Entitlement

1

Clinical Education Program for IntelliSpace Portal IX Workstation:

Intellispace IX Handover Education: Clinical Education Specialists will provide twenty-four (24) hours of Multi-Modality 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.

Intellispace IX Followup Education: Clinical Education Specialists will provide twenty-four (24) hours of Follow Up Multi-Modality OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process.

Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref #718719-120208

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ICAP Upg Portal Entitlement

1

Clinical Education Program for IntelliSpace Portal DX/HX/EX Server Upgrade or Conversion V4 to V5:

Intellispace Handover Education: Clinical Education Specialists will provide twenty-four (24) hours of Multi-Modality OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEUs are not available in all cases. Please read Guidelines for more information, which will be provided to you during the scheduling process.

Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref # 718-120208

25

**NM3194C BRIGHTVIEW XCT
SYSTEMS CTC14**

1

The Biomed Technician is trained to a technical level that will enable him/her to install, configure and perform corrective maintenance on a BrightView XCT.

KEY TOPICS:

Labs and Lectures

Lectures

Overview of BrightView, BrightView X and XCT
Overview of BrightView, BrightView X and XCT power distribution
Overview of BrightView, BrightView X and XCT network motion control architecture
Differences between the systems in the series
BrightView XCT exposure control
High Voltage Generator components and theory
Calibration of SPECT and X-Ray components

PREREQUISITES:

Knowledge of:

- NM9111 Nuclear Fundamentals CBT, or Nuclear Experience
- XD9015 X-Ray Basics, Part 1 CBT, or X-Ray Experience
- CS9043 EBW CBT

Accreditation: None.

Location: CTC; Cleveland, OH, USA.

Class Length: 1 days (excludes Saturdays, Sundays, and Philips holidays)

All course materials are on CSIP level 1.

* 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

OPTIONS

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

Line #	Description	Qty
1	Redundant Application Availability	1

The IntelliSpace Portal Redundant Application Availability (AKA High Availability) option provides an additional Portal server that can be used in case the primary Portal server is unavailable due to hardware or other issues. It will require some minimal intervention of the Hospital IT department to configure and bring on-line to replace the original primary system. Common system configurations such as LAN/DICOM connectivity are redundant. Patient data is not redundant on the High-Availability system. The high-availability server should be located near the primary system on the same shared network.

Note: The High Availability Server does not include IDL licenses which are required for Jetpack which is a suite of organ-specific applications for general nuclear medicine and which are part of the NM Processing App Suite option.

Prerequisite: IntelliSpace Portal V5

2	Full Travel Package for OffSite Education	1
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Includes one (1) participant's airfare from North American customer location to Cleveland, Ohio, with modest lodging, ground transportation, and meal expenses. Breakfast/dinner provided by the hotel, and lunch/breaks are catered by Philips. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced.

Expires one (1) year from the earlier of equipment delivery date or purchase date.