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PO#: 668-B80014

Line #	Part #	Description	Qty
1		<b>CardioMD IV SPECT System</b>	1
		<b>CardioMD IV SPECT System</b>	

The CardioMD IV is a compact, fixed 90-degree dedicated nuclear cardiology camera that provides cardiac assessment capabilities to your practice and department, while improving patient experience and maximizing return on investment.

CardioMD IV includes:

- Gantry
- Detectors, fixed 90 degree configuration
- LEHR collimator pair
- Collimator cabinet
- Acquisition console and software license
- Mobile cart for acquisition computer and display monitor
- DICOM Modality Worklist software license
- Accessory kit (incl. IV Pole, Head & Shoulder Support)
- Uniformity QC kit (intrinsic Uniformity QC)
- Instructions for Use CD, English
- Installation and packing materials
- Service CD, and installation guide

Features and benefits:

- Patient friendly open gantry design
- High throughput – fixed 90 degree dual-head camera design and workflow optimized for cardiology
- Dependable image quality – high-resolution detectors and LEHR collimators, advanced robotics and 4" table cutoff that minimize table attenuation and patient-to-detector distance
- Small footprint – compact design fits easily into a 8 ft x 10 ft (2.4m x 3.0m) room for supine-only imaging, or a 11 ft x 10 ft (3.35m x 3.05m) room for supine and prone imaging

CardioMD IV acquisition console:

- Operating system: Windows 7 (or higher)
- Monitor: 21" LCD monitor

**Clinical Education Program for Cardio MD IV Systems**

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Line #	Description	Qty
	<p><b>Handover OnSite Education:</b> Philips Clinical 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 and two physicians. The first four (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 24 hours. CEUs are not available in all cases. Please read the Training 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.</p> <p>Note: For optimum results Philips limits Physician training to two (2) physicians on the Intellispace Portal for Nuclear Medicine Viewer. All additional participants or packages require purchase of Intellispace Portal applications training.</p> <p><b>Recommendations:</b> To enhance customer satisfaction with the camera and workstation over the first year of use, <b>989801292154 (NM Additional OnSite 16h)</b> should also be purchased. Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref # 6366-09152017</p>	
2	<p><b>CMD IV Long Table supine&amp;prone</b></p> <p>Long table for supine and prone imaging on the CardioMD Series IV camera. This package includes patient table, mattress and comfort kit (IV pole, head and shoulder support): :</p> <ul style="list-style-type: none"> <li>• Low height for easy patient positioning</li> <li>• Table weight limit of 400 lbs (180 kg)</li> <li>• 0.12" (3mm) curved aluminum design</li> <li>• 4" table cutoff to minimize table attenuation and decrease patient distance</li> <li>• Attenuation &lt;10% @ 140 keV</li> <li>• Minimum room size requirement of 11'x10' (3.05m x 3.35m)</li> </ul>	1
3	<p><b>Ivy ECG trigger</b></p> <p>The Model 7600 is Ivy Biomedical System's 5th generation cardiac trigger monitor used in applications requiring precision ECG R-wave synchronization for gating host systems on and off. The Model 7600 incorporates an intuitive, menu-driven, touch-screen user interface, simplifying operation for clinicians and technicians.</p> <ul style="list-style-type: none"> <li>• Precision ECG R-wave peak detection</li> <li>• 4 lead ECG configuration with auto lead selection</li> <li>• On-screen color coded trigger pulse indication</li> <li>• Multi-language user interface</li> </ul>	1
4	<p><b>Roll stand for ECG trigger</b></p> <p>Roll stand for Ivy ECG trigger model 7600</p>	1
5	<p><b>Resolution QC Phantom, CMD IV</b></p>	1

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CardioMD resolution bar phantom (4 quadrant) to assess spatial resolution and linearity.

Note: Applicable to CardioMD series I, II, III and IV

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

Product: 882450.000 CardioMD III

Serial Number: 882450\_6080902

Manufacturer: PHILIPS HEALTHCARE

Line #	Description	Qty
1	<b>SPECT Package - LX</b> <b>NICA773 SPECT Review/Processing LX</b>	1

SPECT Review/Processing Application provides a comprehensive review, analysis, and processing environment for Planar and SPECT studies.

The processing applications include 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".

The processing applications also include JETPack, a complementary suite of organ-specific applications for general nuclear medicine developed within IDL(TM) programming environment.

AutoSPECT Pro provides for SPECT reconstruction workflows with a goal of reducing the number of user interactions through protocols. It integrates into one user interface, fast and fully automated reconstruction and reorientation software with motion correction.

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

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

For cardiac quantification/review, optional AutoQUANT, ECTb or Corridor4DM software is recommended.

Note: Required option on IntelliSpace Portal LX SPECT.

#### **NICA438 NM Astonish Recon Suite**

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 distancedependent 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

Line #	Description	Qty
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- 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

2	<b>Number of Concurrent Users</b>	<b>1</b>
	<b>NA</b>	

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

### Concurrency

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

### General

IntelliSpace Portal is a thin-client applications server (or workstation deployed for single users) that turns virtually any PC that meets the minimal requirements into an advanced multimodality imaging system workspace to support radiology, cardiology, oncology, neurology, orthopedics, and other specialties' imaging needs, thereby streamlining clinical workflow. IntelliSpace Portal /IX Workstation uses advanced networking capabilities to enable collaboration among clinicians to aid in optimizing clinical decisions. Clinicians can review the results and conduct measurements on images of multiple imaging modalities - including studies acquired from multiple vendors' imaging equipment -- at their convenience in their preferred location. Intellispace Portal's advanced networking and thin-client technologies provides management, and upgrade simplification. In addition, the IntelliSpace Portal now runs in a virtual server environment, allowing you to capitalize on the power of your in-hospital network.

*\* Please contact local Philips representative for details on multivendor coverage*

### Standard capabilities

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

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Thin-client architecture and multivendor compatibility that makes image data and applications available (for IntelliSpace Portal configurations) anywhere for all CT, MR, Nuclear Medicine, Ultrasound, iXR and DXR images</li> <li>Guided Task workflow walks users through each processing stage from start to finish</li> <li>Use of bookmarks, interactive snapshots, and other convenient tools to increase efficiencies and minimize training needs</li> <li>New color scheme for easier reading</li> <li>Multimodality Viewer for display of CT, MR, Nuclear Medicine, Ultrasound, iXR and DXR datasets – standard</li> <li>Smart MR Viewing, smart linking, cine movie loop for MR datasets</li> <li>"Export to Neuro Surgery" feature enables export of functional results to other DICOM nodes such as surgical planning devices</li> <li>Save electronic Key Image Notes (KIN) directly within images to increase informal communication between various users</li> <li>Multimodality Fusion: PET-CT, SPECT-CT, NM-CT, CT-CT, MR-MR and CT-MR</li> <li>Automatic Registration: PET-CT, SPECT-CT, CT-CT and MR-MR</li> <li>PET/CT Alpha blending and 2D/3D SUV calculations</li> <li>Display of multi-frame secondary captures</li> <li>Slab Review capabilities including regional investigation and curved MPR</li> <li>3D Volume rendering, MIP, VIP, minIP, SurfaceMIP</li> <li>Volume Explorer: for instant and interactive seed-growing 3D segmentation</li> <li>"Glass View" to display bony structures in relation to 3D volumes</li> <li>Comprehensive DICOM Printing ("Filming")</li> <li>Dual monitor support -- for color monitors.</li> <li>DICOM &amp; IHE compliance</li> <li>For Portal configurations: <ul style="list-style-type: none"> <li>Clinical results can be ported directly into PACS or RIS using HL7, Encapsulated-PDF via DICOM, or mXML. Save Key images, notes, and tables directly to your reports; combine findings</li> </ul> </li> </ul>	

Line #	Description	Qty
	from multiple clinical applications into a single patient level report to be transferred directly into the PowerScribe 360 Diagnostic report.	
	o Supports PACS integration: Ability to launch IntelliSpace Portal clinical applications from PACS or RIS at the time when the user is reviewing a study. This improves workflow by automated steps, help reduces mistakes such as typo errors, reduce additional search on ISP client for specific patients and even study/series after launching ISP client from PACS client. Closing study in PACS will also close it on Portal. (safety requirement). Automated exchange of bookmarks and results between ISP and PACS. Note: Certain PACS vendors may charge for the configuration services which are required per site.	
	IntelliSpace Portal proprietary technology streams display to the client over a LAN, WAN or any broadband Internet connection through the hospital's VPN (virtual private network) without the need to download the CT, MR or Nuclear Medicine data to the client PC. The 'heavy lifting' and complex processing of the data is done on the server.	
	<i>* Please contact local Philips representative for details on multivendor coverage</i>	
	<ul style="list-style-type: none"> <li>Key specifications and requirements (for Portal Configurations):</li> </ul>	
	VM Ware Specifications:	
	Memory:	
	<ul style="list-style-type: none"> <li>Memory (RAM) minimum: 2GB RAM. Recommended: 4 GB or above.</li> <li>Memory (RAM) minimum: 4GB RAM for clients also running PACS</li> <li>Memory (RAM) for NM applications and/or when other applications are running in parallel minimum: 4 GB RAM</li> </ul>	
	CPU:	
	<ul style="list-style-type: none"> <li>Processor (CPU minimum): 2 cores @ 1.8 GHz / 4 cores @ 1.6 GHz</li> <li>Processor (CPU Minimum for NM applications and/or when other applications are running in parallel): 3 Cores @ 2.8 GHz / 4 Cores @ 2.4 GHz</li> <li>Processor (CPU recommended): 3 Cores @ 2.8 GHz / 4 Cores @ 2.4 GHz</li> </ul>	
	Disk Space:	
	Free Disk Space*: 4 GB or above (on Drive C)	
	Additional 5 GB of free disk space are required to burn DVD. Additional 15 GB of free disk space are required to install iXR client	
	Client Monitor:	
	<ul style="list-style-type: none"> <li>Minimal screen resolution: 1024x768. Recommended: 1280x1024 (or above)</li> <li>Minimal screen Resolution for NM Apps: 1280x1024 (or above)</li> <li>Up to 3 Mega Pixel monitors are supported</li> <li>Monitor Dots Per Inch Settings: 96DPI</li> <li>24bpp (or higher) color depth monitors</li> <li>No support for monochrome or grayscale-only monitors)</li> </ul>	
	Multi monitor: Require adequate support of client display card and driver	
	Graphic card (added in release notes)	
	The client machine should also support a graphic card with the following requirements:	
	1. Native DirectX 9.c support	
	2. Native GDI+ Support	
	3. Native Windows Aero interface support	
	4. 128MB RAM (for the graphic card)	
	Network	
	Minimum Network adapter speed: 100 Mbps or above	

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	<p>Recommended Network adapter speed: 1 Gbps or above</p> <p>LAN (Hospital) Network: Network bandwidth/latency (LAN): 100 Mbit/s or above- (1 Gigabit/s or above recommended), 0-5ms Latency recommended.</p> <p>Home connection</p> <ul style="list-style-type: none"> <li>• Network bandwidth/latency (for home connection): 5 Mbit/s or above download speed, 512Kbit/s or above upload speed with latency &lt;20ms</li> <li>• Network bandwidth/latency for NM Apps (for home connection): 10 Mbit/s or above download speed, 1Mbit/s upload speed with latency &lt;10ms</li> <li>• Network bandwidth/latency for NM 3rd Party Apps (for home connection, AutoQuant, Corridor4DM, ECTb, NeuroQ) :</li> <li>• 100Mbit/s download/ 10Mbit/s upload with &lt;10ms latency</li> </ul> <p>Software Pre-Requisites:Supported OS:</p> <ul style="list-style-type: none"> <li>• Windows 7 (32 &amp; 64 bit)</li> <li>• Windows 8 / 8.1</li> <li>• Windows 10</li> <li>• Windows 7, 8, 8.1 and Windows 10 require an administrative account for initial installation</li> </ul> <p>Pre-Installed software:</p> <ul style="list-style-type: none"> <li>• Net Framework 4.5.2 Client + Extended or above</li> <li>• Additional Software Recommended (for optional features):</li> <li>• Adobe Acrobat Reader [for Report &amp; Help]</li> <li>• Adobe Flash Player [for On-line Web Trainings] Windows Media</li> <li>• Windows Media Player 9.0 or above [for saving Movies] IMAPiv2 [for Burning CD/DVD]</li> <li>• DirectX 9.c (or better) – Optional component required for better application experience</li> </ul> <p>* For the NA Market only</p>	
3	<p><b>IntelliSpace LX SPECT Workstation</b></p> <p>The IntelliSpace LX SPECT workstation offers a user friendly processing and review environment that can be tailored to accommodate your specific clinical and workflow needs.</p> <ul style="list-style-type: none"> <li>• User friendly processing and review environment offering access to a comprehensive suite of Nuclear Medicine applications and image analysis tools.</li> <li>• Intuitive user interface and processing tools providing efficient workflow while helping to speed the “time to diagnosis”.</li> <li>• Incorporates Philips' Guided Task and Bookmarks concepts supporting clinical workflow and ease of use, to help facilitate enhanced productivity and minimize training needs.</li> <li>• Provides maximum flexibility for review and analysis, and access to specialized clinical applications.</li> <li>• Scalable Nuclear Medicine workstation ready to support your current and future clinical needs, making it a secure, long-term investment.</li> </ul> <p>IntelliSpace LX SPECT workstation supports DICOM or Windows XP 64 bit compatible printers only. Please contact Philips to check compatibility with a specific printer model.</p> <p>Note: The IntelliSpace LX SPECT workstation requires the selection of SPECT Review/Processing application. Optional CT or MR processing applications are not available on the IntelliSpace LX SPECT workstation.</p>	1

Line #	Description	Qty
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4	<b>SPECT AutoQuant WS 2015.x</b>	1
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The Cedars Sinai Cardiac Suite 2015 – Nuclear Medicine Software is a comprehensive application suite for nuclear cardiology. SPECT AutoQUANT offers an automated approach to the analysis, quantification and review of perfusion and function from myocardial perfusion SPECT and Gated SPECT images. It includes:

QPS: Quantitative Perfusion SPECT

QGS: Quantitative Gated SPECT

QBS: Quantitative Gated Blood Pool SPECT

Normals Databases (TI-TI, Dual Isotope, MIBI-MIBI, VantagePro, Astonish, Astonish AC, User-Definable)

Automated RV contouring, quantification and analysis.

Perfusion polarmap defect editor.

The feature provides one fixed license node locked to a specific IntelliSpace IX or LX workstation.

Prerequisite: IntelliSpace Portal IX/LX Workstation 8 or 9

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

Line #	Description	Qty
1	<b>NM3205 Cardio MD4 and Body MD Essentials 3Days</b>	1

Course Number: NM3205

Course Title: CardioMD and BodyMD Essentials

Course Length/Location: 36 hours Instructor Lead at Cleveland Training Center

Description: This course covers first level training for:

- The CardioMD and BodyMD systems

Topics addressed are:

- System overview
- Safety
- System operations
- System architecture
- Planned maintenance
- Basic Troubleshooting and Repair
- Competency Tests & Exam

This course is an Instructor Led Training (ILT). This means that you must attend in-class/lab presentations and complete a series of lab exercises before you will be certified as trained. The tasks must be completed under the supervision of an instructor or designee.

All prerequisites must be complete before registering for this course.

In this Instructor Led Training you are going to:

- Attend lectures
- Participate in classroom activities
- Participate in labs

All required materials and detailed instructions are provided by your instructor.

Prerequisites:

- FC 9001 Business Essentials
- FC9002 Safety
- FC9003 Imaging System Safety
- FC9017 Basic Networking
- FC9055 Service Tools
- NM9111 NM Fundamentals

Course Objectives:

After completing this course, you will be able to:

- become familiar with the CardioMD and BodyMD systems at a basic level
- remove the covers from the CardioMD and BodyMD
- ensure a safe work environment in the area of the CardioMD and BodyMD systems
- adequately operate the CardioMD and BodyMD systems
- operate all system safety features on the CardioMD and BodyMD systems
- perform pre-programmed motions and acquisitions on the CardioMD and BodyMD systems

Line #	Description	Qty
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- exchange collimators on the CardioMD and BodyMD systems
- recognize system status by observing the system and component LED's for the CardioMD and BodyMD systems
- describe the motion architecture on the CardioMD and BodyMD systems
- use the CardioMD and BodyMD system software
- use the CardioMD and BodyMD service tools and gather log files to send for analysis
- perform all required PM steps on the CardioMD and BodyMD
- verify the CardioMD and BodyMD are ready for clinical use
- use the service tools to troubleshoot and repair basic level issues in the CardioMD and BodyMD

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

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

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