

Qty	Description
1	<p data-bbox="451 442 1341 470">Optima NM/CT 640 Excel Nuclear Imaging Integrated with an Xeleris 3.1 Workstation</p> <p data-bbox="451 491 1464 697">The Optima NM/CT 640 Excel is a premium, all purpose, high performance, hybrid SPECT/CT imaging system. It combines an integrated nuclear imaging sub-system featuring a dual-detector free-geometry slim gantry, advanced all-digital Elite NXT detectors with 3/8" detectors, cantilevered patient table and powerful acquisition station, with a dedicated low-dose high resolution CT imaging sub-system designed for attenuation correction of SPECT and anatomic localization of radiotracer uptake in the body.</p> <p data-bbox="451 719 1451 846">The two Elite NXT detectors are designed for all-purpose nuclear imaging with excellent image quality originating from two highly stable, slim, large rectangular field-of-view digital detectors, featuring five corrections performed on each detected event in real time, even at high count rates. The key features include:</p> <ul style="list-style-type: none"> <li data-bbox="451 868 824 895">o 3/8" (9.5 mm) NaI crystal thickness</li> <li data-bbox="451 917 1430 974">o 59 high quantum efficiency circular PMTs, each coupled with one analog to digital converter (ADC)</li> <li data-bbox="451 995 1325 1023">o Extra Large Rectangular UFOV with no cut-off corners: 21.25" x 15.75" (54 x 40 cm)</li> <li data-bbox="451 1044 837 1072">o Shielded energy range: 40 - 620 keV</li> <li data-bbox="451 1093 1227 1121">o Contoured detector housing for optimal cardiac and brain SPECT imaging</li> </ul> <p data-bbox="451 1142 1430 1200">The Optima NM/CT 640 Excel features an integrated low-dose, 4 slice CT sub-system designed for attenuation correction and localization with the following key features:</p> <ul style="list-style-type: none"> <li data-bbox="451 1221 724 1249">o GE CT tube ( GE MX135CT)</li> <li data-bbox="451 1270 716 1298">o GE Gedi 42 AC Generator</li> <li data-bbox="451 1319 1373 1347">o Clinical operational tube current of 10-30 mA and maximum generator power of 4.2 kW</li> <li data-bbox="451 1368 651 1395">o 120 kVp or 140 kVp</li> <li data-bbox="451 1417 902 1444">o 2.0 MHU tube anode heat storage capacity</li> <li data-bbox="451 1466 878 1493">o Scan times of 1 or 2 seconds per rotation</li> <li data-bbox="451 1515 919 1542">o 2.5mm slice thickness on each of the 4 slices</li> <li data-bbox="451 1564 1068 1591">o Ceramic detector made of Gadolinium OxySulfide (Gd<sub>2</sub>O<sub>2</sub>S)</li> <li data-bbox="451 1613 862 1640">o Pitch factors of 0.75:1, 1.25:1 and 1.75:1</li> </ul> <p data-bbox="451 1661 1373 1761">Optima NM/CT 640 Excel features a wide 70 cm bore and slim gantry with free-geometry, enabling cardiac SPECT (90 degrees), general SPECT (180 degrees), whole body and planar imaging in various geometries to facilitate imaging a wide patient population.</p> <p data-bbox="451 1783 1349 1810">The gantry design includes several features designs for maximum clinical versatility and</p>

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	<p>enhanced operational flexibility:</p> <ul style="list-style-type: none"> <li>o Externally mounted detectors for ease of positioning in all major clinical studies, including those for stretcher, standing and seated patients</li> <li>o Simultaneous rapid gantry orientation transitions between procedures</li> <li>o Upright and horizontal detector orientations</li> <li>o Real-time, infrared-based Automatic Body Contouring (ABC) for enhanced scanning efficiency and resolution</li> <li>o User-definable, pre-programmed, home positions for the gantry orientation and patient table set up</li> <li>o Gantry display unit with real-time status display and an intuitive, icon-based 20-function handset-accessible from either side of the gantry</li> <li>o Fast, semi-automatic dual collimator exchange</li> </ul> <p>The Optima NM/CT 640 Excel utilizes an ergonomic, dual-axis patient table, with a cantilevered telescoping design to be used for planar, whole body and SPECT applications. The low-attenuation carbon fiber table top supports a maximum patient weight of 227 kg (500 lb.) and has a maximum scan range of 200 cm (79"). A minimum table height of 59 cm (23.2") facilitates patient loading and unloading from a wheelchair or stretcher.</p> <p>Other key patient table features include:</p> <ul style="list-style-type: none"> <li>o Automated positioning via protocol selection <ul style="list-style-type: none"> <li>• Easy swivel of table away from gantry to enable collimator changes and facilitate imaging of patients who are seated or on hospital bed/stretcher</li> </ul> </li> <li>o Included patient bed mattress with straps</li> <li>o Manual emergency patient egress</li> <li>o Optional table accessories including a head holder, table extender, arm support, leg support and additional table pads/straps</li> </ul> <p>The Optima NM/CT 640 Excel hybrid SPECT/CT acquisition station is based on a Linux operating system with an Xeleris look-and-feel graphical user interface. The acquisition station performs exam scheduling, protocol editing, NM and CT scan acquisition, QC acquisition, CT reconstruction along with routing analysis, and networking.</p> <p>Acquisition Station Hardware Features:</p> <ul style="list-style-type: none"> <li>o High performance Intel based HP Z400 computer</li> <li>o Intel Processor - 2.5Ghz</li> </ul>

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	<ul style="list-style-type: none"> <li>o 4 GB RAM (2 x 2 GB)</li> <li>o 160 GB hard drive</li> <li>o Flat panel display (LCD) operating at 1280 x 1024 in true color</li> </ul> <p>Operation is via an interactive, GE common Graphical user interface with the following software features:</p> <ul style="list-style-type: none"> <li>o Simultaneous acquisition and energy spectrum histogram (PHA) display with up to 64 independent windows per detector for multi-isotope/ multi-peak scanning versatility</li> <li>o Acquisition termination by preset time, preset count or manual stop and the ability to resume paused acquisitions for whole body, SPECT, and gated SPECT</li> <li>o Pre-defined or user-configurable protocols for rapid recall and setup</li> <li>o Universal imaging system connectivity via DICOM 3.0 (per DICOM conformance statement) and Interfile 3.3 TCP/IP based protocols</li> <li>o HIS/RIS integrated workflow including DICOM Modality Work List</li> <li>o Ability to connect to broadband/high speed network. This virtual private network (VPN) connection to GE is a single point of access using 3DES encryption for faster data transfer with increased system uptime and productivity.</li> <li>o Data acquisitions may be performed using single or multiple isotopes in any of the following imaging modes: Static, Dynamic, Multi-Gated, Whole Body Scanning, SPECT and Gated SPECT</li> </ul> <p><b>Xeleris 3.1 Workstation</b></p> <p>Included in the integrated system is the Xeleris 3.1 functional imaging workstation for Nuclear Medicine, PET, NM/CT and PET/CT processing, analysis, and review system. Designed with productivity in mind, it can accelerate workflow and provides a powerful clinical diagnostic tool to the medical imaging community. Combining streamlined workflow with a comprehensive clinical library and extensive networking capabilities on a functional imaging workstation, Xeleris 3.1 is at the nucleus of productivity in the clinical imaging department. Utilizing the GE Healthcare-wide graphical user interface, Xeleris 3.1 is the processing and review platform of the Discovery*, Optima* and Brivo* NM and NM/CT series, Infinia* Hawkeye* 4, Ventri, Discovery PET/CT 600 series, and all other molecular imaging cameras in GE Healthcare's current offering. Xeleris 3.1 provides the automated processing and connectivity necessary in today's demanding environment.</p> <p>Included is X2 AAO Motion DC</p> <p><b>MDC - Motion Detection and Correction</b></p> <p>Automated cardiac and general purpose SPECT motion correction integrated into Xeleris applications.</p>

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	<p>Detect and correct automatically for motion in the X and/or Y-axis, with dual head, image masking and gradient mode selectable options for improved accuracy. QA tools include: Cine of original and corrected projection data with</p> <p>reference lines; Side by side original and corrected Sinograms and Selective Linograms; Graphs of X-Shifts and Y-Shifts (in pixels) and Integrated into Myovation Cardiac Suite and other general purpose SPECT reconstruction packages.</p> <ul style="list-style-type: none"> <li>o 23" widescreen flat panel display</li> <li>o Keyboard and mouse</li> </ul>
1	<p>Discovery NM LEHR Collimators with Cart</p> <p>D670 Low Energy High Resolution Collimators Includes: o Two LEHR Collimators o Collimators Mounted on a Dedicated Collimator Cart</p>
1	<p>Discovery NM MEGP Collimators with Cart</p> <p>D670 Medium Energy General Purpose Collimators</p> <p>Includes: o Two MEGP Collimators</p> <ul style="list-style-type: none"> <li>o Collimators Mounted on a Dedicated Collimator Cart</li> </ul>
1	A set of 1 pinhole collimator with 3 inserts with collimator cart for Discovery NM 670
1	An L-shaped metal plate attachable to the wall with an opening for a syringe in order to acquire point source-based flood acquisition at a few meters distance from vertically positioned detector for QA purposes.
1	Center of rotation source holder for Quality assurance , easily attached to Infinia or Ventri table.
1	A set of cables designed to support the connection of the system to a 480V UPS for O640 power regulation purposes.
1	IVY 3000M RWAVE+CART
1	<p>Xeleris* 3.1 functional imaging workstation is a Nuclear Medicine, PET, NM/CT, and PET/CT processing, analysis, and review system. Designed with productivity in mind, it can accelerate workflow and provides a powerful clinical diagnostic tool to the medical imaging community. Combining streamlined workflow with a comprehensive clinical library and extensive networking capabilities on a functional imaging workstation, Xeleris 3.1 is at the nucleus of productivity in the clinical imaging department. Utilizing the GE Healthcare-wide graphical user interface, Xeleris 3.1 is the processing and review platform of the Discovery*, Optima* and Brivo* NM and NM/CT series, Infinia* Hawkeye* 4, Ventri, Discovery PET/CT 600 series, and all other molecular imaging cameras in GE Healthcare's current offering. Xeleris 3.1 provides the automated</p>

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	processing and connectivity necessary in today's demanding environment.
2	<p>Cedars Sinai Cardiac Packages (option) A comprehensive set of nuclear cardiology protocols for advanced cardiac analysis, including:</p> <ul style="list-style-type: none"> <li>o Cedars Sinai Quantitative Perfusion SPECT? (option)</li> <li>o Automatic 3-Dimensional software approach to quantitative Perfusion SPECT.</li> <li>o Cedars Sinai Quantitative Gated SPECT? (option)</li> <li>o An application calculating the ejection fraction of the left ventricle and a 3D surface display is generated.</li> <li>o Cedars Sinai Companion (option)</li> <li>o Optional module for QGS and QPS applications features - 17 segment scores and templates in QPS - Diastolic filling parameters in QGS - Eccentricity ratio in QGS</li> </ul>
1	<p>X2 AAO 3D FUSION NM/CT</p> <p>Volumetrix 3D for Nuclear Medicine: 3D Fusion and Volume Rendering software for Xeleris 2 workstations.</p> <ul style="list-style-type: none"> <li>• 3D display of SPECT/CT fused volumes.</li> <li>• Segmentation to include or exclude portions of either volume in the 3D rendered images, including removal of the table from the CT image, and segmentation default types of Hot Spot, Adjacent, Spine, and Mediastinum</li> <li>• Triangulation to view a defined location in all 2D slices</li> <li>• Clip &amp; Cut Planes to integrate traditional Axial, Sagittal, and Coronal slices simultaneously into the 3D rendered objects</li> <li>• Default Anatomical Classification presets for a broad variety of cases with the ability to create customized presets</li> <li>• Optimized layouts for both Single and Dual Monitor (additional option) Xeleris 2 Workstations (see minimum specifications) Volumetrix 3D requires an Xeleris 2 workstation with the following minimum specifications:</li> <li>• 2GB of RAM</li> <li>• XW6400 Desktop and above or T60 Laptop and above</li> <li>• Minimum configuration for IB upgrades is XW6400 Desktop</li> </ul>
1	<p>TiP HQ Class NM Workstation - Full Service</p> <p>3.5 day TiP NM Workstation course held in the Milwaukee area. Includes travel and modest living expenses.</p> <p>This course will prepare the technologists and Physicians for performing the daily workstation operations.</p>

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	This training program must be scheduled and completed within 12 months after the date of product delivery.
1	<p>TiP NM Onsite Training for GE SPECT/CT Camera Systems and Workstation</p> <p>8 Days of TiP Onsite Training. 4 Days initial startup training and 4 Days follow up training.</p> <p>Onsite training is delivered Monday through Friday between 8AM and 5PM. T&amp;L expenses are included.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
1	<p>6 KVA UPS for Nuclear Medicine</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> <li>• The use of uninterruptible power enables the system imaging to be completed after the loss of supply power, and allows for saving of valuable data and orderly system shutdown</li> <li>• The Online Double Conversion UPS eliminates all power anomalies such as noise, transients, overvoltage and undervoltage, which could damage the imaging system's sensitive computer components</li> <li>• Improves imaging system reliability, reduces service costs, and increases system uptime</li> <li>• Cell Saver Technology provides conditioned power even during severe brownout conditions without depleting battery resources</li> <li>• System monitoring via: LanSafe III / FailSafe III software, (2) RS-232 Ports</li> <li>• PowerPass Module further enhances reliability through Maintenance Bypass Switch which performs maintenance or upgrade your UPS without powering down your critical systems</li> </ul> <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> <li>• Dimensions (H x W x D): 33.6" x 9.9" x 15.8"</li> <li>• Weight: 218 lbs.</li> <li>• Input Voltage: 200 - 240 VAC</li> <li>• Output Voltage: 120/240, 120/208 VAC</li> <li>• Frequency: 45-65 Hz</li> </ul> <p>COMPATIBILITY</p> <ul style="list-style-type: none"> <li>• Maxxus NM</li> </ul> <p>NOTES:</p> <ul style="list-style-type: none"> <li>• Customer is responsible for rigging and arranging for installation with a certified electrician</li> <li>• ITEM IS NON-RETURNABLE AND NON-REFUNDABLE</li> </ul>

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1	<p>Patient Arm Support for NM, PET/CT, MR</p> <p>Padded Arm Rest combines total arm support and passive restraint, increasing patient comfort during extended procedures. Designed to accommodate virtually all patients. Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H</p>
1	<p>Patient Leg Rest for Nuclear, PET/CT, MRI</p> <p>Contoured Leg Rest prevents low back stress and pain that occurs during supine imaging and treatment, measures 7 in. H x 17 in. D x 13 in. W. Designed to accommodate virtually all patients. Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H</p>
1	<p>Nuclear Basic Service (Class/Lab)</p> <p>The Nuclear Basic Service class will provide the student with the theory of how a Gamma Camera operates and allow them to work safely in a nuclear environment. They will gain hands on experience on a variety of current GE Nuclear equipment allowing them to perform basic service This course must be taken within 2 years from the purchase date.</p>
1	<p>Discovery NM/CT 670 is a new high performance all-purpose dual head nuclear medicine imaging system, which is scalable to a hybrid scanner with a BrightSpeed 16. The Discovery CT/NM 670 shall have the capability of full CT functionality, full NM functionality, and hybrid CT/NM acquisition modes. This provides best in class NM and CT image quality, inherently registered anatomical and functional information, and CT attenuation correction. The system that does not include CT functionality is called Brivo NM615. This course must be taken within 2 years from the purchase date.</p>
1	<p>The BrightSpeed for Discovery NM/CT 670 course is a one week course for NM Field Engineers who are not trained on the BrightSpeed 16 CT system. This course will follow the two week Discovery NM/CT 670 training course and is a component for Full Service Qualification on the Discovery 670 system. This course must be taken within 2 years from the purchase date.</p>
20	<p>Meals and Lodging Expense has been developed to allow the customer the convenience of prepaying for their meals and lodging expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI.</p> <p>The price of this convenience is based on a per day basis. Thus a quantity of 1 is equal to 1 day's meals and lodging expense. When purchasing the meals and lodging expense please be mindful of weekend days during the training stay and include 2 days to cover a weekend in the</p>

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	<p>purchase quantity.</p> <p>Examples: A 5-day course needs a quantity of 5. Any course longer than 5 days should include 2 days to account for the weekend stay. Any course longer than 10 days will require an additional 4 days of the meals and lodging expense to cover the 2 weekends of the stay. Thus a 15-day course would have a quantity of 19 days to cover the 2 weekends of the stay. This expense must be used within 2 years from the purchase date.</p> <p>Three meals a day Monday thru Thursday, 2 meals on Friday, plus breaks are provided in the onsite cafeteria. The GE Healthcare Institute cafeteria closes Friday after lunch and reopens Monday morning for breakfast. Weekend meals are the responsibility of the customer.</p> <p>Only for In-resident courses to be taken at the GE Healthcare Institute.</p>
1	<p>The AIRFARE EXPENSE has been developed to allow the customer the convenience to prepay their roundtrip Airfare expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI. To be used for engineers attending In-Resident Class/Lab courses for Diagnostic Imaging.</p> <p>Customer will make their Airfare arrangements thru the GE Travel Center. Specific directions will be provided to the customer upon confirmation of class. Please note that this expense must be used within 2 years of the purchase date</p>
2	<p>Lodging Weekend Expense</p> <p>Weekend Lodging Expense is to cover Saturday and Sunday lodging expenses for those engineers who are staying at the Rivers Edge Condos while attending Diagnostic Imaging Biomed training at the Healthcare Institute. Please note that there are no meals included on the weekend. Must be used within 2 years from the purchase date.</p>
1	<p>Xeleris Service Web</p> <p>Xeleris 2.0 e-training provides a comprehensive training tool that allows field engineers to install, configure, maintain and service the Xeleris 2.0 workstation. This course must be taken within 2 years from the purchase date.</p>
1	<p>CT Basic Physics/Instrumentation (Web)</p> <p>The CT Fundamentals Course is Designed for Service Engineers who have Little or No Familiarity with CT Systems. The Course Teaches General Processes, Concepts, and Equipment Used in CT Scanning. This Course is Delivered Via the internet as an online training course. This course must be taken within 2 years from the purchase date.</p>
1	<p>CT True In One Console Service (Web) This course covers the following topics on the True in One Console: Console Models, Hardware details and mechanical layout, Installation and FRU replacement, Troubleshooting using command lines and diagnostics. This course must be taken</p>



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1	<p data-bbox="446 436 852 468">within 2 years from the purchase date</p> <p data-bbox="446 500 868 532">Evolution Family contains the following:</p> <p data-bbox="446 563 641 595"><b>EFB FOR XELERIS 3</b></p> <p data-bbox="446 606 1461 776">Evolution for Bone provides Evolution Resolution Recovery reconstruction on SPECT bone scans. The Efb application may be utilized to provide equivalent image quality on half-dose or half-time bone scans. This license H3901MD processes Infinia, Infinia Hawkeye 4, and Discovery 600 series family of camera data. This license can only function with pre-requisite JHU-RR (H3901KS/H3901KT) and (H3602NH) EFB SPECT CAMERA LICENSE</p> <p data-bbox="446 798 787 829"><b>Evolution for Cardiac for Xeleris 3</b></p> <p data-bbox="446 840 1461 1042">Evolution for Cardiac provides Efc provides Evolution Resolution Recovery Reconstruction on SPECT Myocardial Perfusion Imaging (MPI) scans. The Efc application may be utilized to provide equivalent image quality on half-dose or half-time MPI scans. This license H3901ME processes Infinia, Infinia Hawkeye 4, Ventri and Discovery 600 series family of camera data. This license can only function with pre-requisite JHU-RR (H3901KS/H3901KT) and (H3602NJ) EFC SPECT CAMERA LICENSE</p> <p data-bbox="446 1064 714 1095"><b>EVOLUTION PLANAR BONE</b></p> <p data-bbox="446 1117 1461 1181">Xeleris 3 Evolution for Planar Bone enables reduced time or dose on whole body or spot bone studies acquired on Discovery 600 series and Infinia cameras.</p> <p data-bbox="446 1202 738 1234"><b>JHU RR 1ST OR 2ND LICENSE</b></p> <p data-bbox="446 1244 1461 1340">Xeleris Plug-in for Evolution Family enables the integration of Evolution Resolution Recovery Applications within the Xeleris 3 workflow. Single license required for all applications except Evolution for Planar Bone.</p> <p data-bbox="446 1361 868 1393"><b>Evolution for Bone SPECT Camera License</b></p> <p data-bbox="446 1415 1461 1606">Enables Camera capability to provide data for Evolution for Bone (Efb). Efb provides Evolution Resolution Recovery reconstruction on SPECT bone scans. The Efb application may be utilized to provide equivalent image quality on half-dose or half-time bone scans. Available for Infinia and Infinia Hawkeye 4 (on Windows XP Operating System) as well as Discovery 600 series cameras. This license can only function with pre-requisite JHU-RR (H3901KS/H3901KT) and EFB FOR XELERIS3 (H3901MD)</p> <p data-bbox="446 1627 738 1659"><b>EFB PLANAR CAMERA LICENSE</b></p> <p data-bbox="446 1681 1461 1821">Enables Camera capability to provide data for Evolution for Planar Bone (Efpb). Efpb provides adaptive Structure Matching non-Local filtering on planar bone scans. The Efpb application may be utilized to provide equivalent image quality on half-dose or half time bone scans. Effective for Disc 600 series, Infinia and Infinia Hawkeye 4 family of cameras. This license can only function</p>

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	<p>with pre-requisite Evolution Planar Bone (H3901NF)</p> <p>Evolution for Cardiac Camera License</p> <p>Enables Camera capability to provide data for Evolution for Cardiac (EfC). EfC provides Evolution Resolution Recovery reconstruction on SPECT Myocardial Perfusion Imaging (MPI) scans. The EfC application may be utilized to provide equivalent image quality on half-dose or half-time MPI scans. Available for Infinia and Infinia Hawkeye 4 (on Windows XP Operating System) as well as Discovery 600 series and Ventri cameras. This license can only function with pre-requisite JHU-RR (H3901KS/H3901KT) and EFC FOR XELERIS3 (H3901ME)</p> <p>EVOLUTION TOOLKIT</p> <p>Xeleris 3 Evolution Toolkit provides Evolution reconstruction benefits integrated within the Volumetrix MI workflow. The Evolution Toolkit contains statistical tools to model reduced time or injected dose. Evolution reconstruction supports Tc99m, In111, Ga67, I123 and Tl201 isotopes and the Discovery 600 series and Infinia cameras.</p> <p>EVOLUTION TOOLKIT CAMERA LICENSE</p> <p>Enables Camera capability to provide data for Evolution Toolkit. The Evolution Toolkit provides Evolution Resolution Recovery reconstruction on SPECT scans resulting in improved resolution and contrast. The Evolution Toolkit application may be utilized with included statistical re-sampling tools to determine optimal dose or time reduction on SPECT studies. Evolution Toolkit supports Tl201, Tc99m, I-123, Ga67, In111 isotopes. Available for Infinia and Infinia Hawkeye 4 (on Windows XP Operating System) as well as Discovery 600 series and Ventri cameras. This license can only function with pre-requisite JHU-RR (H3901KS/H3901KT) and EFB FOR XELERIS3 (H3901MD)</p>

## Options

(These items are not included in the total quotation amount)

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1	VMX IR 1st or 2nd (NM/PET)  VMX Image Registration (IR) allows registration of multiple hybrid data including SPECT/PET/CT/MRI Registered datasets can be displayed in multiple combinations of functional and anatomic display within VMX workflow.