

REQUESTING SERVICE: ACQUISITION & MATERIEL MGMT(90)
DEL. TO: WAREHOUSE
SHIP TO: WAREHOUSE/RM51-BU B80010
V.A. Medical Center
3495 BAILEY AVE
BUFFALO, NY 14215
P.O.# 528-B80010

VA Western New York Healthcare System at
Buffalo
3495 Bailey Ave
Buffalo NY 14215-1129

Item No.	Qty	Description
1	1	<p>The Discovery NM630 Acquisition System is a premium, all-purpose, dual detector, free-geometry nuclear imaging system, featuring advanced, all-digital Elite NXT detector technology, a slim gantry, cantilevered patient table, and acquisition station. Elite NXT slim detectors are designed for general-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.</p> <p>The key features include:</p> <ul style="list-style-type: none">o 3/8" (9.5 mm) NaI crystal thicknesso 59 high quantum efficiency circular PMTs, each coupled with one analog to digital convertero Extra Large Rectangular UFOV with no cut-off corners: 21.25" x 15.75" (54 x 40 cm)o Energy range: 40 - 620 keVo Contoured detector housing for optimal cardiac and brain SPECT imaging <p>Discovery NM630 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. The gantry includes several features designed for maximum</p>

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		<p>clinical versatility and operational flexibility:</p> <ul style="list-style-type: none"> o Externally mounted detectors for ease of positioning in all major clinical studies, including those for stretcher, standing and seated patients o Upright and horizontal detector orientations o Rapid gantry orientation transitions between procedures o Real-time, infrared-based Automatic Body Contouring (ABC) for enhanced scanning efficiency and resolution in 90 & 180 SPECT, and whole body scanning procedures o User-definable pre-programmed home positions for the gantry orientation and patient table o Gantry display unit with real-time status display and an intuitive, icon-based 20-function handset accessible from either side of the gantry o Fast, semi-automatic dual collimator exchange <p>The Discovery NM630 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 53.5 cm (21") facilitates patient loading and unloading from a wheelchair or stretcher.</p> <p>Other key features include:</p> <ul style="list-style-type: none"> o Automated positioning via protocol selection o Manual emergency patient egress o Included patient bed mattress with straps o Easy swivel of table away from gantry

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		<p>around pivot point at rear of table to enable collimator changes and facilitate imaging of patients who are seated or on hospital bed/stretcher</p> <ul style="list-style-type: none"> o Optional integrated EKG trigger o Optional table accessories including a head holder, table extender, arm support, leg support and additional table pads/straps <p>The Discovery NM630 acquisition station is based on a Linux operating system with user interface similar to the Xeleris. The station interface enables exam scheduling, protocol editing, scan acquisition, QC acquisition along with routing analysis, and networking.</p> <p>Acquisition Station Hardware:</p> <ul style="list-style-type: none"> o High performance Intel based HP Z400 computer o Intel Xeon Quad Core Processor o 4 GB RAM (2 x 2 GB) o 500 GB hard drive o Flat panel display operating at 1280 x 1024 in true color <p>Operation is via an interactive, graphical, common GE user interface with the following features:</p> <ul style="list-style-type: none"> o Simultaneous acquisition and energy spectrum histogram (PHA) display with up to 64 independent windows for maximal scanning versatility with multiple isotope(s). 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 o Pre-defined or user-configurable protocols for rapid recall and setup

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		<ul style="list-style-type: none"> o Ignite accelerated workflow technology to streamline the workflow as described below o Universal imaging system connectivity via DICOM 3.0 (per DICOM conformance statement) and Interfile 3.3 TCP/IP based protocols o HIS/RIS integrated workflow including DICOM Modality Work List 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. 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. The Ignite technology can make most clinical scans as easy as 1, 2, 3: <ul style="list-style-type: none"> o (1) Select the patient from the work list on the camera o (2) Position the patient and press Start (Ignite the process) o (3) Review the results that will be automatically displayed without the need for further interaction.
2	1	<p>NM 600 LEHR Collimators with Cart</p> <p>NM 600 Low Energy High Resolution Collimators</p> <p>Includes:</p> <ul style="list-style-type: none"> o Two LEHR Collimators o Collimators Mounted on a Dedicated Collimator Cart
3	1	<p>NM 600 ELEGP COLLIMATOR SET(2) W/CART</p> <p>NM 600 Extended Low Energy General Purpose Collimator</p> <p>A set of two Extended Low Energy Collimators for imaging procedures with Tc-99m and I-123,</p>

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		providing high sensitivity scans for general purpose applications. Includes also a collimator cart for storage , loading / unloading the collimator on/off the NM 600 detectors.
4	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.
5	1	Quality Control Flood Source Holder Kit A large plate mounted at a small distance above the NM detector on which the flood source is positioned in order to perform acquisition of flood studies for QA/QC purposes.
6	1	Center of rotation source holder for Quality assurance , easily attached to Infinia or Ventri table.
7	1	AXIAL HEAD HOLDER The Axial Head holder is ergonomically designed to position patient's head outside of the patient tabletop pallet , enabling brain SPECT orbiting as close as possible to the patient's skull with maximal coverage of the target tissue
8	1	NM 600 Series Patient Pallet Extender The patient pallet extender for NM 600 Series products can be used to extend the table top for multi-FOV SPECT, SPECT/CT and whole body studies. Length is 600mm; Width is 391mm; 300mm extension Note - The use of the extender requires more space between the camera and the back wall of the scan room. Consult with GE Healthcare project manager for minimum room size requirements.
9	1	NM 600 Touch Ruler

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		An interactive touch-sensitive device mounted at one side of the patient table, used to define nuclear imaging scan range (start and stop points), saving the need to enter these values manually from the operator console
10	1	Long table pad and straps
11	1	A DVD player which functions with the boom mounted gantry display unit in order to provide video display during the scan for patient entertainment purposes.
12	1	A streamlined floor plate designed to facilitate collimator exchange on the NM 600 series cameras to aid hospital bed and stretcher imaging.
13	1	NM600 DETECTORS DISMOUNT An option enabling transportation and mobilization of the NM600 series gantry separated from the detectors for easier load in elevators or easier access through restricted paths such as narrow hallways or doorways
14	1	The acquisition cart is an ergonomically designed, flexible, mobile yet stable device. The cart is designed to carry a display monitor, a Keyboard, a mouse and a PC-tower on board. Modular design enables easy customization by flexible positioning of the keyboard support tray , the monitor support bracket height ,the screen angle and the mouse support tray orientation (left/right) per user preferences and needs.
15	1	NORAV ECG GATING FOR D630 A compact ECG gating device for Discovery 630 gated cardiac studies , embedded in the Patient table in order to simplify operation.
16	1	EfB SPECT CAMERA LICENSE 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.
17	1	EfB PLANAR CAMERA LICENSE

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		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.
18	1	<p>EFC SPECT 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.</p>
19	1	<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, & I-131 isotopes.</p>
20	1	<p>Butterfly (R-Made) Armrest</p> <p>Designed to support a patient's arms during cardiac SPECT and other imaging procedures. Armrest offers new solution to motion artifact caused by the discomfort and pain of prolonged upper extremity hyperextension and abduction. Fast and easy to use, can be mounted and removed in one piece. and is tightly secured by adjustable mounting straps. Polyethylene construction is durable, nonbreakable, and easily learned. Measures 18 in. L x 14 in. W x 8 in. H; weighs 2.5 lb. Recommended for</p>

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		use with GE Optima Systems. Warranty Code H
21	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>
22	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>
23	1	<p>6 KVA UPS for Nuclear Medicine</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> • 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 • 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 • Improves imaging system reliability, reduces service costs, and increases system uptime • Cell Saver Technology provides conditioned power even during severe brownout conditions without depleting battery resources • System monitoring via: LanSafe III / FailSafe III software, (2) RS-232 Ports • PowerPass Module further enhances reliability through Maintenance Bypass Switch which performs maintenance or upgrade your UPS without powering down your critical systems <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> • Dimensions (H x W x D): 33.6" x 9.9" x 15.8" • Weight: 218 lbs. • Input Voltage: 200 - 240 VAC • Output Voltage: 120/240, 120/208 VAC

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		<ul style="list-style-type: none"> Frequency: 45-65 Hz <p>COMPATIBILITY</p> <ul style="list-style-type: none"> Maxxus NM <p>NOTES:</p> <ul style="list-style-type: none"> Customer is responsible for rigging and arranging for installation with a certified electrician ITEM IS NON-RETURNABLE AND NON-REFUNDABLE
24	1	Main disconnect panel for GE 630 NM system and GE Brivo NM615
25	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> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
26	1	<p>6 Days Onsite Plus 10 Hours TVA</p> <p>6 Days, 2 Visit Onsite plus 10 Hours TVA training for NM Camera System and Workstation.</p> <p>Onsite training is delivered Monday through Friday between 8AM and 5PM. T&L expenses are included. This training program must be scheduled and completed within 36 months after the date of product delivery.</p>
27	1	<p>Nuclear Basic Service (5 Day 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>
28	1	<p>Discovery NM630 and Brivo NM615(class/lab)</p> <p>This course provides information on system components and the tasks required to calibrate and service the Discovery NM/CT670, Discovery NM630 and Brivo NM615 systems. Additional CT training may be required for D670 certification. This training</p>

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		must be taken within 2 years from the purchase date. Contact us at geeducation@ge.com 877-438-4788.
29	1	<p>NM Basic Physics/Instrumentation (Web)</p> <p>This is an entry course for Service Engineers new to the modality of Functional Imaging. This Course gives introductory theories and concepts of Nuclear Medicine and P.E.T. imaging for service technicians. Engineers will be able to understand Fundamental Nuclear Theory as it applies to functional imaging, understanding the imaging process and factors that impact it, and identify main components of Nuclear Medical and PET Systems. This course is delivered via the internet. This course must be taken within 2 years from the purchase date.</p>
30	1	<p>Troubleshooting Basics Service (Web)</p> <p>This Course is Intended for Individuals Involved in Servicing Medical Equipment. By Taking This Course, You will Learn a Proven Process for Troubleshooting Problems with Medical Equipment. You will Also Learn How to Use Various Tools in a Troubleshooting Situation and How to Interpret Error Messages. This Course Does Not Address How to Troubleshoot Specific Products. It is Recommended That you Have Fundamental Training in a Modality Prior to Taking This Course. This course must be taken within 2 years from the purchase date.</p>
31	5	<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 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, pluse 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>

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		Only for In-resident courses to be taken at the GE Healthcare Institute.
32	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>
33	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>
34	1	<p>GE Healthcare has reclassified its service tools, diagnostics and documentation into various classes (please refer to the Service Licensing Notification statement at the beginning of this Quotation). The Standard License provides access to service tools used to perform basic level service on the Equipment and is included at no charge for the warranty period.</p>
35	3	<p>Xeleris 4.0 Software upgrade from Xeleris 3.1</p> <p>Xeleris 4.0 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.</p> <p>Combining streamlined workflow with a comprehensive clinical library and extensive networking capabilities on a functional imaging workstation, Xeleris 4.0 is at the nucleus of productivity in the clinical imaging department. Utilizing the GE Healthcare-wide graphical user interface, Xeleris 4.0 is the processing and</p>

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		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 4.0 provides the automated processing and connectivity necessary in today's demanding environment.
36	3	Xeleris 4 Printed Docs English

Options

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37	1	<p>Q.Brain allows the user to visualize and quantify relative changes in the brain's metabolic function or blood flow activity</p> <p>between a subject's images and controls, when used with radiopharmaceuticals approved by the regulatory authority</p> <p>in the country of use, which may be resulting from brain function alterations in:</p> <ul style="list-style-type: none"> • Epileptic seizures • Dementia, such as Alzheimer's disease, Lewy body dementia, Parkinson's disease with dementia, vascular dementia, and frontotemporal dementia. • Inflammation • Brain death • Cerebrovascular disease such as acute stroke, chronic and acute ischemia • Traumatic Brain Injury (TBI) <p>When integrated with the patient's clinical and diagnostic information,</p> <p>Q.Brain application may aid the physician in the interpretation of cognitive complaints, neuro-degenerative disease processes and brain injuries.</p>
38	1	Q.Brain Normals Data base for HMPAO Ceretec
39	1	Q.Brain Normals Data base for ECD NeuroLite
40	1	Q.Brain Normals Data base for IMP
41	1	Q.Brain Normals Data base for FDG
42	1	<ul style="list-style-type: none"> • Diagnosis of Pulmonary Embolism (PE), Chronic Obstructive Pulmonary Disease (COPD), Emphysema

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and other lung deficiencies.

- Assess the fraction of total lung function provided by a lobe or whole lung for Lung cancer resection requiring removal of an entire lobe, bilobectomy or pneumonectomy.