SHIP TO:
WAREHOUSE/RM51-BU B80033

P.O.# 528-B80033

V.A. Medical Center
3495 BAILEY AVE
BUFFALO, NY 14215

Item No.	Qty	Description
1	1	NM 830 Nuclear Imaging 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 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:

• 3/8" (9.5 mm) or 5/8" (15.9mm) NaI crystal thickness

• 59 high quantum efficiency circular PMTs, each coupled with one analog to digital converter

• Extra Large Rectangular UFOV with no cut-off corners: 21.25" x 15.75" (54 x 40 cm)

• Energy range: 40 - 620 keV

• Contoured detector housing for optimal cardiac and brain SPECT imaging

NM 830 features a wide 70 cm bore and slim gantry with free-geometry, enabling cardiac SPECT (90°), general SPECT (180°), whole body and planar imaging in various geometries to facilitate imaging a wide patient population. The gantry design includes several features for maximum clinical versatility and enhanced operational flexibility:

• Externally mounted detectors for ease of positioning in all major clinical studies, including those for stretcher, standing and seated patients

• Upright and horizontal detector orientations

• Rapid gantry orientation transitions between procedures

• Real-time, infrared-based Automatic Body Contouring (ABC) for enhanced scanning efficiency and resolution in 90° & 180° SPECT, and whole body scanning procedures

• User-definable pre-programmed home positions for the gantry orientation and patient table

• Gantry display unit with real-time status display and an intuitive, icon-based 20-function handset accessible from either side of the gantry

• Fast, semi-automatic dual collimator exchange

The NM 830 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. Other key features include:

• Automated positioning via protocol selection

Item No.	Qty	Description

- Bedside touch ruler for easy scan range setup

- Manual emergency patient egress

- Included patient bed mattress with straps

- Easy swivel of table away from gantry around pivot point at rear of table to enable collimator changes and facilitate imaging of patients who are seated or on hospital bed/stretcher

- Optional integrated EKG trigger

- Optional table accessories including a head holder, table extender, arm support, leg support and additional table pads/straps

The NM 830 acquisition station is based on a Linux operating system with user interface similar to the Xeleris Workstation. The acquisition station performs exam scheduling, protocol editing, scan acquisition, QC acquisition along with routing analysis, and networking.

Operation is via interactive, graphical GE common user interface with the following features:

- Simultaneous acquisition and energy spectrum histogram (PHA) display with up to 64 independent windows per detector to ensure acquisition into correct energy window for given isotope(s).

- Acquisition termination by preset time, preset count or manual stop and the ability to resume paused acquisitions for whole body, SPECT, and gated SPECT

- Pre-defined or user-configurable protocols for rapid recall and setup

- Ignite accelerated workflow technology to streamline the workflow in 3 steps: patient selection from work list, set up patient and utilize auto-home positioning, and click once for acquisition initiation, automatic transfer and processing of results on Xeleris Workstation (not included)

- Universal imaging system connectivity via DICOM 3.0 (per DICOM conformance statement) and Interfile 3.3 TCP/IP based protocols

- HIS/RIS integrated workflow including DICOM Modality Work List

- 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.

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 Evolution for Bone SPECT Camera License enables the acquisition of Evolution for Bone SPECT data sets on 800 series cameras. The Evolution for Bone SPECT algorithm models the collimator-detector response, improves Bone SPECT resolution, signal to

noise ratios and reduces noise variability. Evolution for Bone SPECT enables improved resolution of bone SPECT studies acquired over standard acquisition time or non-inferior image quality with up to 50% reduction in count density, achieved by either imaging at ½ acquisition time or injecting with ½ dose (or any combination of the two) when compared to standard bone SPECT imaging protocols. The Evolution for Bone reconstruction is an additional module within the Q.Volumetrix MI application.

The Evolution for Planar Bone Camera License enables the acquisition of Evolution for Planar Bone data sets on the 800 series cameras. The Evolution for Planar Bone includes a noise reduction algorithm that preserves the finest structures in the image using well-suited pixel size and optimal energy window settings. This Adaptive Structure Matching Non-Local Filter enables improved planar image quality for the same scan time, shorter planar scan time while preserving image quality, or reduced injected dose with the same scan time while preserving image quality. The Evolution for Planar Bone reconstruction is an additional module within the Whole Body Bone and Spots Review application.

The Evolution for Cardiac Camera License enables the acquisition of Evolution for Cardiac data sets on the 800 series cameras. The Evolution for Cardiac resolution recovery algorithm models the collimator-detector response, improves cardiac SPECT resolution, signal to noise ratios and reduces noise variability. Evolution for Cardiac provides non-inferior image quality with up to 50% reduction in count density, achieved by either imaging at ½ the acquisition time or injecting with ½ the dose (or any combination of the two) when compared to standard MPI protocols. The Evolution for Cardiac reconstruction is an additional module within the Myovation application.

The Evolution Tool Kit Camera License enables the acquisition of Evolution Tool Kit data sets on the 800 series cameras. The Evolution Tool Kit is a package enabling improved resolution and reduced noise for SPECT studies of Tc99m, I123, In111 and Ga67 by using the Evolution reconstruction technique with resolution recovery. Compared to standard FBP or iterative reconstruction, Evolution Tool Kit can enable improved visual clarity. Evolution Tool Kit includes Poisson and Angular re-sampling tools to for imaging simulation of various levels of count densities to test the impact of time or dose reduction on image quality. Evolution Tool Kit reconstruction is an additional module within the Q.Volumetrix MI application.

Item No.	Qty	Description
2	1	NM 800 Low Energy High Resolution and sensitivity Collimators includes two collimators and a dedicated collimator cart.
3	1	NM 600 LEHR Collimators with Cart NM 600 Low Energy High Resolution Collimators

Item No.	Qty	Description
		Includes:
		o Two LEHR Collimators
		o Collimators Mounted on a Dedicated
		Collimator Cart
4	1	NM 600 MEGP Collimators with Cart
		NM 600 Medium Energy General Purpose Collimators
		Includes:
		o Two MEGP Collimators
		o Collimators Mounted on a Dedicated
		Collimator Cart
5	1	NM 600 High Energy General Purpose Collimators
		Includes:
		- Two HEGP Collimators
		Collimators Mounted on a Dedicated Collimator
		Cart
6	1	A set of 1 pinhole collimator with 3 inserts
		with collimator cart for NM 600
7	1	The Bilateral Pinhole Motion enhancement option enables NM600 Series cameras to perform pinhole collimated imaging of both sides of a patient on the imaging table without moving the patient in procedures such as imaging of bilateral hips anteriorly or bilateral kidneys posteriorly.
8	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.
9	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.

Item No.	Qty	Description
10	1	Center of rotation source holder for Quality assurance , easily attached to Infinia or Ventri table.
11	1	Bar phantom for spatial resolution and linearity tests of gamma cameras. The phantom consists of four quadrants with different bar specification: For each of the quadrant, bar spacing is 2.5mm, 3.2mm, 3.5mm & 4.0mm.
12	1	Long table pad and straps
13	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
14	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.
15	1	A streamlined floor plate designed to facilitate collimator exchange on the NM 600 series cameras to aid hospital bed and stretcher imaging.
16	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.
17	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
18	1	NORAV ECG GATING FOR D630

Item No.	Qty	Description
		A compact ECG gating device for Discovery 630 gated cardiac studies , embedded in the Patient table in order to simplify operation.
19	1	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.
20	1	Butterfly (R-Made) Armrest
		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 use with GE Optima Systems. Warranty Code H
21	1	Patient Arm Support for NM, PET/CT, MR
		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
22	1	Patient Leg Rest for Nuclear, PET/CT, MRI
		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
23	1	8 Days Onsite Plus 10 Hours TVA Training for GE Camera System and Workstation Eight days onsite training delivered over 3 visits, plus 10 hours TVA training for GE Camera System and Workstation 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.
24	1	TiP HQ Class NM Workstation - Full Service

Item No.	Qty	Description

3.5 day TiP NM Workstation course held in the Milwaukee area. Includes travel and modest living expenses.

This course will prepare the technologists and Physicians for performing the daily workstation operations.

This training program must be scheduled and completed within 12 months after the date of product delivery.

1   **Xeleris 4 DR Workstation**

25   1

Xeleris* 4 DR SPECT molecular imaging workstation is a Nuclear Medicine, PET, NM/CT, and PET/CT processing, analysis, and review system. Designed to leverage the latest SPECT quantitative applications for routine clinical use, it accelerates workflow and improves diagnostic confidence. The Xeleris 4 DR opens the doors to the new era of digital healthcare delivery through the enablement of Healthcare Cloud potential and advanced applications to help solve some of the most complex clinical presentations. Combining streamlined workflow with a comprehensive clinical library and extensive networking capabilities on a molecular imaging workstation, Xeleris 4 DR is at the nucleus of productivity in the clinical imaging department along with enhanced security features. Utilizing the GE Healthcare-wide graphical user interface, Xeleris 4 DR 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 4 DR provides the automated processing and connectivity necessary in today's demanding environment.

Xeleris* 4 DR SPECT includes Motion detection & correction software.

26   1

Xeleris 4 Evolution Bundle Software License for a single Xeleris 4 Workstation and all its XFL clients. This item contains the following Evolution licenses.
- Xeleris 4 Evolution for Bone (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. This license processes Infinia 2, Infinia Hawkeye 4,and Discovery 600 family of camera data. EFB SPECT CAMERA LICENSE (H3602NH) required.
- Xeleris 4 Evolution for Planar bone (EfPB): Enables reduced time or dose on whole body or spot bone studies. 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. This license processes Infinia 2, Infinia Hawkeye 4,and Discovery 600 family of camera data. Evolution Planar Bone Camera license (H3901NF) required.
- Xeleris 4 Evolution for Cardiac (EfC): Provides Evolution Resolution Recovery

Item No.	Qty	Description
		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 tc99m scans. This license processes Infinia 2, Infinia Hawkeye 4,Ventri, and Discovery 600 family of camera data. EFC SPECT CAMERA LICENSE (H3602NJ) required. - Xeleris 4 Cardiac Morphing (CM): Provides Elastic registration of gated cardiac cycle to the end diastolic bin.The removal of blurring in the cardiac cycle provides enhanced clarity of myocardial wall visualization. Processes data from Infinia 2, Infinia Hawkeye 4, Ventri and Discovery 600 family of camera data. CARDIAC MORPHING CAMERA LICENSE (H3602PT) required. - Xeleris 4 Evolution Toolkit - A package enabling improved resolution and reduced noise for SPECT studies of 99mTc, 123I, 111In, 131I, Ga67 by the use of the Evolution reconstruction technique with resolution-recovery. This license processes Infinia 2, Infinia Hawkeye 4,and Discovery 600 family of camera data. Evolution Toolkit Camera License (H3602Nk) required.
27	1	Cedars Sinai Cardiac Packages. A comprehensive set of nuclear cardiology protocols for advanced cardiac analysis, including: o Cedars Sinai Quantitative Perfusion SPECT o Automatic 3-Dimensional software approach to quantitative Perfusion SPECT. o Cedars Sinai Quantitative Gated SPECT o An application calculating the ejection fraction of the left ventricle and a 3D surface display is generated. o Cedars Sinai Companion 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
28	1	Cedars Sinai Automatic Report Generator An Optional Package Available for the QGS/QPS

Item No.	Qty	Description
		Applications for Generating Reports
29	1	Cedars Sinai Blood Pool Gated SPECT (BPGS) is an Application for the Quantitative Analysis of Gated Cardiac Blood Pool Data
		sets. It Automatically Computes Volumes and Ejection Fractions for Both Ventricles and Displays Motion Polar Maps as Well
		as Static Parametric Surfaces and Gated Endocardial Surfaces. The Protocol Consists of Several Modules Including:
		o The Slice Pages Display Two Vertical Long Axis Images Allowing Side-by-Side Viewing of Both the Left and Right Ventricles.
		The Information Display Box Contains Information Pertaining to Both Ventricles Including Volume at Current Interval, EDV,
		and ESV, EF, and Stroke Volume.
		o The Splash Screen Displays Four Rows of Images, with Contours that can be Separately Toggled On and Off for the LV
		and RV.
		o Surfaces can be Displayed in Various Ways, Including Wireframed Shaded Surfaces, Grid (Wireframe Overlaid on a Shaded
		Surface) With or Without Superimposed ED. All Surfaces can be Rotated and Gated in Real Time.
		o The Splash3D Display Allows Viewing of Three Synchronized Pairs of 3D Views, which can be Gated and Rotated Interactively.
		o The Results Display Summarizes the Results Using Motion Polar Maps, Parametric Motion Surfaces and Regular Endocardial
		Surfaces, in Addition to the Image Display to the Left of the Screen. Requirement for H3901PB - Cedars plug-in
30	1	Xeleris 4 DR English Language Kit

Options

Item No.	Qty	Description
31	1	NM 600 ELEGP COLLIMATOR SET(2) W/CARTF NM 600 Extended Low Energy General Purpose Collimator A set of two Extended Low Energy Collimators for imaging procedures with Tc-99m and I-123, 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.
32	1	Fan Beam collimator enables higher efficiency brain SPECT studies compared to LEHR collimator. o Recommended brain scan radius is 14-16 cm o Focal distance from collimator surface is 350 mm o Effective collimator thickness is 57 mm
33	1	NM600 Series Low Energy Ultra High Resolution Collimator set Includes Two LEUHR Collimators. Both collimators are Mounted on a Dedicated Collimator Cart
34	1	Nuclear Basic Service (5 Day Class/Lab) 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.
35	1	Discovery NM630 and Brivo NM615(class/lab)

Item No.	Qty	Description
		This course provides information on system components and the taskes 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 must be taken within 2 years from the purchase date. Contact us at geeducation@ge.com 877-438-4788.
36	10	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.

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.

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.

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.

Only for In-resident courses to be taken at the GE Healthcare Institute.

Item No.	Qty	Description
37	2	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. 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
38	1	Xeleris Service Web 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.
39	1	Troubleshooting Basics Service (Web) 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.