

TRADE IN

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Optima NM/CT 640 Excel Nuclear Imaging Acquisition System

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.

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:

- o 3/8" (9.5 mm) NaI crystal thickness
- o 59 high quantum efficiency circular PMTs, each coupled with one analog to digital converter (ADC)
- o Extra Large Rectangular UFOV with no cut-off corners: 21.25" x 15.75" (54 x 40 cm)
- o Shielded energy range: 40 - 620 keV
- o Contoured detector housing for optimal cardiac and brain SPECT imaging

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:

- o GE CT tube (GE MX135CT)
- o GE Gedi 42 AC Generator
- o Clinical operational tube current of 10-30 mA and maximum generator power of 4.2 kW
- o 120 kVp or 140 kVp

- o 2.0 MHU tube anode heat storage capacity
- o Scan times of 1 or 2 seconds per rotation
- o 2.5mm slice thickness on each of the 4 slices
- o Ceramic detector made of Gadolinium OxySulfide (Gd₂O₂S)
- o Pitch factors of 0.75:1, 1.25:1 and 1.75:1

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.

The gantry design includes several features designs for maximum clinical versatility and enhanced operational flexibility:

- o Externally mounted detectors for ease of positioning in all major clinical studies, including those for stretcher, standing and seated patients
- o Simultaneous rapid gantry orientation transitions between procedures
- o Upright and horizontal detector orientations
- o Real-time, infrared-based Automatic Body Contouring (ABC) for enhanced scanning efficiency and resolution
- o User-definable, pre-programmed, home positions for the gantry orientation and patient table set up
- 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

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 patientweight 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.

Other key patient table features include:

- o Automated positioning via protocol selection

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

- o Included patient bed mattress with straps

- o Manual emergency patient egress

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

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.

Acquisition Station Hardware Features:

- o High performance Intel based HP Z400 computer

- o Intel Processor - 2.5Ghz

- o 4 GB RAM (2 x 2 GB)

- o 160 GB hard drive

- o Flat panel display (LCD) operating at 1280 x 1024 in true color

Operation is via an interactive, GE common Graphical user interface with the following software features:

- o Simultaneous acquisition and energy spectrum histogram (PHA) display with up to 64 independent windows per detector for multi-isotope/ multi-peak scanning versatility

- 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

- 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 with increased system uptime and productivity.

- 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

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Discovery NM LEHR Collimators with Cart

D670 Low Energy High Resolution Collimators Includes: o Two LEHR Collimators o Collimators Mounted on a Dedicated Collimator Cart

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D670 High Energy General Purpose Collimators Includes: - Two HEGP Collimators Collimators Mounted on a Dedicated Collimator Cart

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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.

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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.

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Center of rotation source holder for Quality assurance , easily attached to Infinia or Ventri table.

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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.

8	1	A set of cables designed to support the connection of the system to a 480V UPS for O640 power regulation purposes.
9	1	Long table pad and straps
10	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.
11	1	D670 -D630 Touch Ruler 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
12	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
13	3	Xeleris 2 Software and Hardware upgrade to Xeleris 3.1 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 processing and connectivity necessary

in today's demanding environment.

NOTE: The Xeleris Workstation that is to be upgraded with this purchase becomes the property of GE Healthcare. Upon installation of the new Xeleris Workstation, the current Xeleris Unit must be De-Installed and returned to GE Healthcare.

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SyncTool, cardiac imaging tool for Emory Cardiac Toolbox, to analyze which heart failure patients will benefit from cardiac resynchronization therapy (CRT). This software application provides cardiologists with an objective and timely measure of left ventricular (LV) dyssynchrony. Once the gated SPECT (G-SPECT) image study is completed, results are available in less than one minute. SyncTool works on Syntermed's Emory Cardiac Toolbox (ECTb) included in Xeleris 2.1 for optimum accuracy and efficiency.

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Cedars Sinai Cardiac Packages (option) A comprehensive set of nuclear cardiology protocols for advanced cardiac analysis, including: o Cedars Sinai Quantitative Perfusion SPECT? (option) o Automatic 3-Dimensional software approach to quantitative Perfusion SPECT. o Cedars Sinai Quantitative Gated SPECT? (option) o An application calculating the ejection fraction of the left ventricle and a 3D surface display is generated. o Cedars Sinai Companion (option) 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

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Evolution Family contains the following:

EFB FOR XELERIS 3

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

Evolution for Cardiac for Xeleris 3

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

EVOLUTION PLANAR BONE

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.

JHU RR 1ST OR 2ND LICENSE

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.

Evolution for Bone 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. 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)

EFB PLANAR CAMERA LICENSE

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 with pre-requisite Evolution Planar Bone (H3901NF)

Evolution for Cardiac Camera License

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)

EVOLUTION TOOLKIT

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.

EVOLUTION TOOLKIT CAMERA LICENSE

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)

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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.

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Xeleris 3 USB activator.

19	3	<p>Xeleris U/G USB HASP Upgrade HASP for use in upgrade Requiring new Xeleris hardware.</p>
20	3	<p>Xeleris 3 Dual LCD Monitor & License for a single Xeleris 3 Workstation.</p> <p>This item contains: o One 22" WideScreen format monitor for Xeleris 3 MI workstation. Provides 40% greater viewing area. o One Dual monitor license</p>
21	2	<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>
22	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&L expenses are included.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</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

SPECIFICATIONS

- 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
- Frequency: 45-65 Hz

COMPATIBILITY

- Maxxus NM

NOTES:

- Customer is responsible for rigging and arranging for installation with a certified electrician
- ITEM IS NON-RETURNABLE AND NON-REFUNDABLE

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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

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3 Piece Leg Rest Set

Set of three including: 5 in., 7 in., and 10 in. in height. 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...H

26	1	Ivy 7600 Cardiac Trigger Monitor Kit - No Recorder, Americas Labeling. For GEHC Nuclear Med.
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27	1	Standard Level 2 service package delivered for the warranty period
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1	Discovery NM 630 IB
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28	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.
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