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#2 Cardiac Alcyone: Discovery 530

DISC 530C NM INT W X3.1

Discovery NM 530c applies SPECT technology, bringing a distinct set of new capabilities beyond those offered by conventional SPECT scanners and opens the doors to new and advanced procedure possibilities in non-invasive cardiac imaging

Discovery NM 530c achieves this technological leap forward through a revolutionary design of a solid-state cardiac optimized SPECT camera. Discovery NM 530c is a breakthrough in SPECT scanner speed, dose management, workflow, and clinical performance.

The Discovery NM 530c Acquisition System is comprised of the following subsystems:

Gantry: o Open gantry design facilitates patient setup and free access o Real-Time gantry status display on acquisition console o Intuitive Icon-Based handset mounted on the gantry o Guided Patient Positioning tools

Detector: High-resolution, solid-state SPECT detector Technology o Multiple arrays of direct conversion 2.46x2.46mm semiconductor CZT detector o Multi-pinhole collimation enabling high sensitivity, simultaneous acquisition of all views and reduced penetration o Detectors shielded for 40-200 keV energy range o Simultaneous acquisition of all views without motion during scanning o Improved energy resolution and scatter rejection o QC source holder enabling fast and accurate QC and calibrations

Flexible, Dual-Axis Imaging Table: o Low attenuation Carbon Fiber tabletop o Flexible, dual axis, automatic/manual table top motion o Fast, manual patient egress upon emergency o Easy patient handling and comfortable back-supporting tabletop

Acquisition Station: o Intel Core2 Quad Processor Q9300 o 6MB onboard L2 cache o Intel X38 chipset with 1333 MHz front side bus o Dual-channel 4x512MB PC2-6400 DDR2-800 (Total 2 GB) o RAID 0 2x80GB SATA II Hard Drive o Windows XP Professional o Integrated ethernet adapter o PCI-E graphics Interface o

CD-RW / DVD-RW Multi Drive o 17" Color LCD Processing Monitor

Ventricam Positioning Camera/Monitor - A miniature video camera attached to an LCD screen in order to monitor patient position relative to the detectors during setup and during the scan. Prevents straining, bending or kneeling by the tech to confirm position.

Ventricare Patient Leg support - Ergonomic leg support mounted on top of Discovery NM 530c patient table, designed to increase patient comfort, reduces patient movement and patient joint strain
VentriCare patient Supine Arm support - Ergonomic arm support mounted on top of Discovery NM 530c patient table, designed to increase patient comfort, reduces patient movement and patient joint strain

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.

Included is X2 AAO Motion DC

MDC - Motion Detection and Correction

Automated cardiac and general purpose SPECT motion correction integrated into Xeleris applications.

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 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.

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Mobile Computer Cart without PC Holder

Mobile Computer Cart without PC Holder

Mobile Acquisition Operator PC Cart is an ergonomic design footprint saving device which minimizes operator travel. Features mechanical adjustment flexibility, supports both left and right-handed operator orientations.

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Ventricare Prone Arm Support

VentriCare Prone Arm Support

- VentriCare Prone Arm Supports an ergonomically-designed arm support mounted on the patient table of a Ventri dual head Cardiac-dedicated camera, supporting patients arms and head during SPECT scans performed in Prone orientation.

Includes:

- Fiberglass frame covered by Viscoelastic layer coated by polyurethane washable fabric.
- Height: 11.0 (28.0cm)
- Width: 30.7 (78.0cm)
- Length: 13.0 (33.0cm)
- Weight: 11lbs (5kg)

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Ventricare Supine Arm Support

VENTRI SUPINE ARM SUPPORT

Ergonomic arm support mounted on top of the Ventri, Discovery NM 530c and Discovery NM/CT 570c patient table. Designed to increase patient comfort, reduces patient movement and patient joint strain. Validated for use with Ventri, Discovery NM 530c and Discovery NM/CT 570c cameras

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Ventri/Discovery NM Series ECG Gating Device

Ventri/Discovery NM Series ECG Gating Device

NORAC 1200 Compact R-Wave trigger; outputs Include ECG Trigger Signal Synchronized with a Patient's R-Wave which are presented live on the Ventri Acquisition display. Used for Multi Gated Cardiac Blood Pool and Multigated Cardiac SPECT Studies.

Includes:

- Mounted on patient table-attached support accessory.
- Three leads patient cable and output cable
- Easy access for tech
- Output displays on Acquisition station screen for easy viewing
- Height: 1.2 (3cm)
- Width: 3.2 (8cm)
- Length: 5.9 (15cm)
- R-wave trigger as TTI level pulse through BNC connector
- ECG channel and trigger data through RS232 interface
- Protected against defibrillation shocks
- Operates on 5V from host system (230/110V medical grade adapter is available as option)

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Alcyone Myovation Image Processing & Review (Used for Xeleris 1 and 2)

Alcyone Myovation Image Processing & Review

Upgrade to Myovation software on Xeleris 2.12 workstations to include Processing and Review functionality for Alcyone cameras

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New Alcyone Access Toolkit

Alcyone ACCESS Toolkit with Motion Correction Detection The Alcyone ACCESS Toolkit is a productivity tool package aimed at

helping Alcyone advanced users exploring the technology's capabilities. Alcyone technology on the Discovery* NM 530c brings a host of new capabilities to nuclear cardiology imaging that are waiting to be explored and discovered. Acquiring more data and the ability to do more with it is key. The Alcyone ACCESS toolkit brings a new approach to SPECT imaging, with the potential to develop new applications and improve clinical care.

Alcyone ACCESS Toolkit is a collection of tools that may be used in conjunction with each other or separately:

- Alcyone Lister Tool**: Off-line processing of acquisition list mode data
- Alcyone Dynamic Analysis Tool**: tool for analysis of dynamic data
- Alcyone Reconstruction Tools**: productivity tools for image reconstruction
- Alcyone External CTAC: allows the use of a separately acquired CT for attenuation correction

* Trademark of General Electric Company ** Results derived from this application are for technology exploratory use only and should not be used for patient diagnosis Motion Detection & Correction for Alcyone Discovery NM 530c and 570c cameras incorporate a novel multi-pinhole geometry which is not compatible with traditional motion correction techniques. Alcyone MDC application allows for motion detection and correction of studies acquired on Alcyone gamma cameras - Discovery NM 530c and Discovery NM/CT 570c Alcyone MDC application is applicable in low dose and high dose 99mTc and 201Tl scans. Alcyone MDC may enhance visual clarity of Alcyone cardiac studies. Simultaneous all views acquisition in Alcyone cameras enables high temporal resolution which may allow for detection and correction of respiratory motion by Alcyone MDC application when adequate count rate is available. Alcyone MDC application does not require any H/W accessory devices for the detection and correction of patient and/or respiratory motion Note: MDC for Alcyone can generate only non attenuation corrected SPECT images.

Alcyone External CTAC Alcyone External CTAC is an optional application where external GE CT scanner data can be used for the Attenuation Correction (AC) of the Emission data. The attenuation maps are built from the nominal CT slices by the Attenuation Correction QC (ACQC) application that is integrated in the Myovation application.

- Attenuation Correction is implemented as a part of the MLEM reconstruction of the NM planar data.
- The data is transferred/imported into Xeleris 3 via DICOM import or transfer

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Xeleris 3 23" Dual LCD Monitor & License

Xeleris 3 Dual LCD Monitor & License for a single Xeleris 3 Workstation.

This item contains: o One 22" WideScreen format monitor for Xeleris 3 MI workstation. Provides 40% greater viewing area. o One Dual monitor license

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Powercom 2 KVA UPS for AW, Ultrasound and Nuclear Medicine

Powercom 2 KVA Uninterrupted Power Supply for AW, Ultrasound and Nuclear Medicine

FEATURES/BENEFITS

- 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, over-voltage, and under-voltage, which could damage the imaging system's sensitive computer components
- Front Panel LCD Display indicates line, bypass, inverter, backup, fault, battery capacity, load capacity, I/P and O/P voltage, I/P and O/P frequency, inside temperature of UPS
- Improves imaging system reliability, reduces service costs, and increases system uptime
- Advanced Battery Management Plus uses sophisticated battery sensing technology to keep the batteries in

sleeping mode if there is small or no loading detective. The two-step battery recharging technology auto charge the battery when it is needed to prevent the temperature from becoming too high, making the battery life longer

- Smart RS-232 Communication Port - Establish link between the UPS and the computer through a cable connect to the RS-232 communication port to detect power failure, battery life, schedule UPS on/off, and AC power status display

SPECIFICATIONS

- Dimensions (H x W x D): 15.2" x 7.6" x 18.1"
- Weight: 70.4 lbs.
- Nominal Voltage: 120 VAC
- Frequency: 50/60 Hz, auto-sensing

COMPATIBILITY

- GE Ultrasound LOGIQ 500, LOGIQ 700, LOGIQ 9, System FiVe, Vivid 7, Vivid 7 Pro, Millennium MG (Nuc), Millennium MPR (Nuc), Millennium MPS (Nuc), Optima (Nuc)

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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6 Days Onsite Plus 10 Hours TVA

6 Days Onsite Plus 10 Hours TVA

6 Days, 2 Visit Onsite plus 10 Hours TVA training for NM 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.

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2 Days NM TiP Onsite Training

2 Days NM TiP Onsite Training

Two Day NM Onsite Training provided from 8AM to 5PM,

Monday through Friday. Includes T&L expenses. Days provided consecutively.

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

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4 Days NM TiP Onsite Training

4 Days NM TiP Onsite Training

Four Days NM Onsite Training provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses. Days provided consecutively.

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

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NUCLEAR BASIC SERVICE

Nuclear Basic Service (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.

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DISCOVERY NM 530C/570C

Discovery NM 530c/570c (Class/Lab)

Students should expect to perform hands-on training in calibrations, Quality Control, and troubleshooting. Course Competencies: Upon successfully completing this course, the student should be able to identify required tools and documentation for system service, work safely in the Discovery 530C environment, identify FRU part numbers, and replace common FRU's. Perform system quality assurance checks and performance verification. Troubleshoot image quality issues Perform system alignments, tuning and calibrations, isolate system faults to the FRU level using system diagnostics. Perform planned maintenance procedures. This course must be taken within 2 years from the purchase date.

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Meals And Lodging Expense

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, 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.

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

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Airfare Expense

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

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Lodging Weekend Expense

Lodging Weekend Expense

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.

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VENTRI CAMERA

Ventri Camera (Web)

This online course will prepare the service engineer for R0182NM Ventri Service In-resident class by teaching the fundamentals of the Ventri Camera system including operation, theory, calibration, diagnostics, and maintenance. This course must be taken within 2 years from the purchase date.

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Troubleshooting Basics Service (web)

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.

#2 Cardiac Alcyone: Discovery 530

TiP HQ Class NM Workstation - Full Service

TiP HQ Class NM Workstation - Full Service

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.