NC DEPARTMENT OF
**HEALTH AND HUMAN SERVICES**

**ROY COOPER • Governor**
**KODY H. KINSLEY • Secretary**
**MARK PAYNE • Director, Division of Health Service Regulation**

**VIA EMAIL ONLY**

March 21, 2024

Dorsey Tobias
Dorsey.tobias@unchealth.unc.edu

**Exempt from Review – Replacement Equipment**

| | |
|---|---|
| **Record #:** | **4390** |
| Date of Request: | February 22, 2024 |
| Facility Name: | Nash General Hospital |
| FID #: | 933368 |
| Business Name: | Nash Hospitals, Inc. |
| Business #: | 1289 |
| Project Description: | Replace existing fixed MRI scanner |
| County: | Nash |

Dear Ms. Tobias:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that the above referenced project is exempt from certificate of need review in accordance with G.S. 131E-184(a)(7). Therefore, you may proceed to acquire without a certificate of need the GE SIGNA Artist 1.5T 30.1 fixed MRI scanner to replace the GE SIGNA HDx UPG 1.5T fixed MRI scanner. This determination is based on your representations that the existing unit will be sold or otherwise disposed of and will not be used again in the State without first obtaining a certificate of need if one is required.

It should be noted that the Agency's position is based solely on the facts represented by you and that any change in facts as represented would require further consideration by this office and a separate determination. If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Gregory F. Yakaboski
Project Analyst

Micheala Mitchell
Chief

cc: Acute and Home Care Licensure and Certification Section, DHSR

UNC HEALTH
Nash

2460 Curtis Ellis Drive, Rocky Mount, NC 27804
252 962-8000 / www.unchealthnash.org

February 20, 2024

**VIA ELECTRONIC MAIL**
Ms. Micheala Mitchell, Chief
Mr. Greg Yakaboski, Project Analyst
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation, NC DHHS
2704 Mail Service Center
Raleigh, NC 27699-2704
Micheala.Mitchell@dhhs.nc.gov
Greg.Yakaboski@dhhs.nc.gov

**RE: Exemption Notice to Replace Existing MRI Equipment**
Facility Name: Nash General Hospital
FID #: 933368

Dear Ms. Mitchell and Mr. Yakaboski:

Please accept this letter as notification of the intent of Nash Hospitals, Inc. (d/b/a "UNC Health Nash", hereinafter referred to as UNC Health Nash) to replace an existing unit of MRI equipment for a total cost less than $2,971,200[1] pursuant to N.C. Gen. Stat. § 131E-184(a)(7) and 10A NCAC 14C .0303.

Under N.C. Gen. Stat. § 131E-184(a)(7), the CON law provides that an applicant's proposal "[t]o provide replacement equipment" is exempt from Certificate of Need review if the Department receives prior written notice from the entity proposing the new institutional health service, including an explanation of why the new institutional health service is required. Replacement equipment is defined in the CON law under N.C. Gen. Stat. § 131E-176(22a)[2] as:

> "Equipment that costs less than three million dollars ($3,000,000) and is purchased for the sole purpose of replacing comparable medical equipment currently in use which will be sold or otherwise disposed of when replaced. In determining whether the replacement equipment costs less than three million dollars ($3,000,000), the costs of equipment, studies, surveys, designs, plans, working drawings, specifications, construction, installation, and other activities essential to acquiring and making operational the replacement equipment shall be included. The capital expenditure for the equipment shall be deemed to be the fair market value of the equipment or the cost of the equipment, whichever is greater. Beginning September 30, 2023, and on September 30 each year thereafter, the cost threshold amount in this subdivision shall be adjusted using the Medical Care Index component of the Consumer Price Index published by the U.S. Department of Labor for the 12-month period preceding the previous September 1."

---

1 On October 30, 2023, the cost threshold amount for replacement equipment was lowered to $2,971,200 based on the -0.96% change in the Medical Care Index (MCI) of the Consumer Price Index published by the US Department of Labor on September 30, 2023 for the 12-month period preceding September 1.

2 Please note that the text cited below is as amended by Session Law 2023-7, which was enacted March 27, 2023, with the cited portion effective immediately.

Ms. Micheala Mitchell, Chief
Mr. Greg Yakaboski, Project Analyst
February 20, 2024

As set forth below, UNC Health Nash's proposed equipment replacement meets the definition of replacement equipment and is exempt from Certificate of Need review.

UNC Health Nash seeks to acquire a GE SIGNA Artist 1.5T 3.0 MRI scanner (Replacement Equipment) to replace UNC Health Nash's existing GE SIGNA HDx UPG 1.5T MRI scanner (Existing Equipment). The proposed replacement is needed as the Existing Equipment, which has been in operation since it was originally put into service in 2002, is beyond its useful life. A completed Equipment Comparison Form is included in Attachment 1. The Replacement Equipment is functionally similar to the Existing Equipment and will be used for the same diagnostic and treatment purposes, although the Replacement Equipment will possess expanded capabilities given technological advancements. The proposed Replacement Equipment will not be used to provide a new health service and will not result in more than a 10 percent increase in patient charges or per procedure operating expenses within the first 12 months after it is acquired. Attachment 2 documents the purchase price for the Replacement Equipment as $1,667,395 and includes deinstallation and removal of the Existing Equipment. Furthermore, the Existing Equipment will not be re-sold or re-installed in North Carolina without permission after its replacement.

The total proposed capital cost for the proposed equipment replacement as shown in Attachment 3, including all costs associated with equipment, studies, surveys, designs, plans, working drawings, specifications, construction, installation, and other activities essential to acquiring and making the Replacement Equipment operational, is $2,193,833.

As outlined above and illustrated in the Attachments, the proposed Replacement Equipment qualifies as replacement equipment pursuant to regulatory and statutory definitions (N.C. Gen. Stat. § 131E-176(22a) and 10A NCAC 14C .0303). As such, the proposed project is exempt from Certificate of Need review pursuant to N.C. Gen. Stat. § 131E-184(a)(7).

If you could, please confirm that you agree with our understanding that the proposed Replacement Equipment is exempt from Certificate of Need review. Please do not hesitate to contact me if any additional information is needed.

Sincerely,

Dorsey L Tobias

Dorsey Tobias
Vice President of Strategy & Communications
UNC Health Nash

Attachment 1 – Equipment Comparison Form
Attachment 2 – Replacement Equipment Quote
Attachment 3 – Projected Capital Cost

UNC HEALTH
Nash
2460 Curtis Ellis Drive, Rocky Mount, NC 27804
252 962-8000 / www.unchealthnash.org

February 20, 2024

Ms. Micheala Mitchell, Chief
Greg Yakaboski, Project Analyst
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation, NC DHHS
2704 Mail Service Center
Raleigh, NC 27699-2704
Micheala.Mitchell@dhhs.nc.gov
Greg.Yakaboski@dhhs.nc.gov

Dear Ms. Mitchell and Mr. Yakaboski:

Nash Hospitals, Inc. (d/b/a "UNC Health Nash") currently owns and operates GE SIGNA HDx UPG 1.5T MRI scanner (Existing Equipment) that has been in operation continuously at Nash Day Hospital [on the main campus of Nash General Hospital] since it was acquired in 2002. The Existing Equipment has not been taken out of service since originally acquired, except on a temporary basis as needed for updates or repairs. Additionally, the Existing Equipment has been used at least 10 times in the past 12 months.

UNC Health Nash proposes to replace the Existing Equipment with new GE SIGNA Artist 1.5T 3.0 MRI scanner to be located in the same space as the Existing Equipment. UNC Health Nash understands that the Existing Equipment will be removed from North Carolina by the vendor. UNC Health Nash will not own or use the Existing Equipment after its replacement.

Please contact me with any questions regarding this matter.

Sincerely,

Dorsey L Tobias

Dorsey Tobias
Vice President of Strategy & Communications
UNC Health Nash

# ATTACHMENT 1

## EQUIPMENT COMPARISON

| | *EXISTING EQUIPMENT* | *REPLACEMENT EQUIPMENT* |
|---|---|---|
| Type of Equipment (List Each Component) | MRI | MRI |
| Manufacturer of Equipment | GE | GE |
| Model Number | SIGNA HDx UPG 1.5T | SIGNA Artist 1.5T 30.1 |
| Mobile or Fixed | Fixed | Fixed |
| Date of Acquisition | 2002 | ~3/15/2024 |
| Specify if Equipment Was/Is New or Used When Acquired | New | New |
| Total Capital Cost of Project (Including Construction, etc.) | N/A | $2,193,833 |
| Total Cost of Equipment | N/A | $1,667,395 |
| Fair Market Value of Equipment | N/A | $1,717,395 |
| Net Purchase Price of Equipment | N/A | $1,667,395 |
| Location of Equipment | Nash Day Hospital | Nash Day Hospital |
| Number Days In Use/To be Used in N.C. Per Year | 365 | 365 |
| Percent of Change in Patient Charges (by Procedure) | N/A | 0% |
| Percent of Change in Per Procedure Operating Expenses (by Procedure) | N/A | <10% |
| Type of Procedures Currently Performed on Existing Equipment | MRI Scans | N/A |
| Type of Procedures New Equipment is Capable of Performing | MRI Scans | MRI Scans |

# ATTACHMENT 2

GE HealthCare

September 22, 2023
Quote Number: **2001758212.23**
Customer ID: **1-23I1EF**
Quotation Expiration Date: **09/29/2023**

UNC Health Care System On Behalf of Nash General Hospital
2460 Curtis Ellis Dr
Rocky Mount, NC 27804-2237

This Agreement (as defined below) is by and between the Customer and the GE HealthCare business ("GE HealthCare"), each as identified below for the sale and purchase of the Products and/or Services identified in this Quotation, together with any applicable schedules referred to herein ("Quotation"). "Agreement" is this Quotation (including line/catalog details included herein) and either: (i) the Governing Agreement identified below; or (ii) if no Governing Agreement is identified, the GE HealthCare Terms and Conditions and Warranties that apply to the Products and/or Services identified in this Quotation.

GE HealthCare can withdraw this Quotation at any time before Customer: (i) signs and returns this Quotation or (ii) provides evidence of Quotation
acceptance satisfactory to GE HealthCare ("Quotation Acceptance"). On Quotation Acceptance, this Agreement is the complete and final agreement of the parties relating to the Products and/or Services identified in this Quotation. There is no reliance on any terms other than those expressly stated or incorporated by reference in this Agreement and, except as permitted in this Agreement, no attempt to modify will be binding unless agreed to in writing by the parties. Modifications may result in additional fees and cannot be made without GE HealthCare's prior written consent.

Handwritten or electronic modifications on this Agreement (except an indication of the form of payment, Customer purchase order number and signatures on the signature blocks below) are void.

| | |
|---|---|
| Governing Agreement: | University of North Carolina Health Care System MPA-11008 |
| Terms of Delivery | FOB Destination |
| Billing Terms | 10% down / 70% delivery / 20% install |
| Payment Terms | Due On Receipt-30 Days |
| Sales and Use Tax Exemption | No Certificate on File |
| Total Quote Net Selling Price | $1,667,395.93 |

**IMPORTANT CUSTOMER ACTIONS:**

Please select your planned source of funds. Source of funds is assumed to be cash unless you choose another option. Once equipment has been shipped, source of funds changes cannot be allowed.

__ Cash

__ GE HFS Loan __ GE HFS Lease

__ Other Financing Loan __ Other Financing Lease Provide Finance Company Name _____

The parties have caused this Agreement to be executed by their authorized representative as of the last signature date below.

UNC Health Care System On Behalf of Nash General Hospital

**Signature:** _____

**Print Name:** Shalwin Hartley

**Title:** CFO

**Date:** 9/29/23

4800987

Purchase Order Number, if applicable

GE Precision HealthCare LLC, a GE HealthCare business

**Signature:** David Kozloff

**Title:** Lead Sales Specialist Imaging

**Date:** September 22, 2023

GE HealthCare

September 22, 2023
Quote Number: **2001758212.23**
Customer ID: **1-23I1EF**
Quotation Expiration Date: **09/29/2023**

**Document Instructions**

Please sign and return this quotation together with any Purchase Order(s) to:

**Name:** David Kozloff

**Email:** david.kozloff@ge.com

**Phone:**

**Fax:**

**Payment Instructions**

Please **remit** payment for invoices associated with this quotation to:

**GE Precision HealthCare LLC**
**P.O. Box 96483**
**Chicago, IL 60693**

**FEIN: 83-0849145**

**UNC Health Care System On Behalf of Nash General Hospital**

**Addresses:**

| | | |
|---|---|---|
| **Bill To** | UNC Health Care System On Behalf of Nash General Hospital | 2460 Curtis Ellis Dr, Rocky Mount, NC, US, 27804-2237 |
| **Ship To** | UNC Health Care System On Behalf of Nash General Hospital | 2460 Curtis Ellis Dr, Rocky Mount, NC, US, 27804-2237 |

**To Accept This Quotation**

- Please sign the quote and any included attachments (where requested).
- Source of Funds (choice of Cash/Third Party Loan or GE HFS Lease Loan or Third Party Lease through _____), must be indicated, which may be done on the Quote Signature Page (for signed quotes), or the Purchase Order (where quotes are not signed) or via a separate written source of funds statement (if provided by GE HealthCare).
- If your purchasing process requires a purchase order, please make sure it includes:
  - The correct Quote number and Version number above
  - The correct Remit To information as indicated in **"Payment Instructions"** above
  - Your correct SHIP TO and BILL TO site name and address
  - The correct Total Price as indicated above

Evidence of the agreement to contract terms. Either: (a) the quotation signature filled out with signature and P.O. number; or (b) Verbiage on the purchase order stating one of the following:

(i) "Per the terms of Quotation # _____";
(ii) "Per the terms of GPO # _____";
(iii) "Per the terms of MPA# _____"; or
(iv) "Per the terms of SAA # _____".

## Summary by Configuration

| Configuration Name | Modality | Net Price (USD) |
|---|---|---|
| SIGNA Artist 1.5T 30.1 | MR | $1,482,080.48 |
| SIGNA Artist 1.5T IB Options | MR | $235,315.45 |
| MR Trade-In's | MR | ($50,000.00) |

**Grand Total:*$1,667,395.93***

## Summary by Modality

| Modality Totals | Net Price (USD) |
|---|---|

**Grand Total:$1,667,395.93**

# Catalog Item Details

| Line | Qty | Catalog | |
|---|---|---|---|
| 1 | 1.00 | Y0000LC | **Pricing Non-Disclosure Language** |

This CONFIDENTIAL offer may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is being extended in relation to a national show-site agreement, research partnership, or other non-standard transaction. If required for publishing, GE will happily provide a list price quote.

| Line | Qty | Catalog | |
|---|---|---|---|
| 2 | 1.00 | S7530GL | **SIGNA™ Artist 1.5T MR30** |

The SIGNA™ Artist 1.5T 70cm wide-bore magnetic resonance system is designed to enable you to deliver both clinical excellence and operational efficiency while changing the MR experience for your patients and staff. With SIGNA™ Artist, put your patients at ease from start to finish with feet-first or head-first entry, Comfort Tilt head and neck positioning as well as free-breathing, motion-forgiving and noise reduced exams. For your staff, simplify and accelerate the scanning process from set-up to acquisition to post-processing with access to an extensive range of clinical imaging and advanced visualization capability.

S7530GL comprises the foundation system electronics and collector kits, calibration phantoms, LDC monitor as well as the eXpress patient table, PA, HNU and split-top head coil. This enhanced edition of SIGNA™ Artist also provides supplementary advanced applications that further extend clinical capability and performance.

- eXpress Patient Table
- TDI PA Posterior Array
- Head Coil Suite: TDI HNU and Split-top T/R Head Coil
- SIGNA™Works Clinical Toolkit Extensions
- SIGNA™Works Advanced Recon, Acceleration, Applications

EXPRESS DETACHABLE PATIENT TABLE

SIGNA™ Artist eXpress Patient Table is a crucial part of AIR™ Workflow. The eXpress table is a mobile patient transport device that houses the TDI Posterior RF Array and touch sensitive IntelliTouch land-marking. The fully detachable table is easily docked and undocked by a single operator and moved in and out of the exam room for patient transport and preparation. The eXpress table and embedded PA coil are designed to accommodate head-first or feet-first imaging for all supported exams.

- Maximum patient weight for scanning: 500 lbs
- Maximum patient weight mobile: 500 lbs
- Maximum patient weight for lift: 500 lbs
- 205 cm symmetrical scan range
- Automated vertical and longitudinal power drive
- Fast longitudinal speed: 30 cm/second
- Slow longitudinal speed: 0.5 cm/second
- Integrated arm boards & non-ferrous IV pole
- IntelliTouch & laser land-marking
- Laser alignment land-marking

TDI POSTERIOR RF ARRAY

The TDI Posterior Array is designed to provide optimal element geometry for each targeted anatomy by using different element geometries for the cervical-to-thoracic spine transition, thoracic and lumbar spine, and the body. The PA coil is designed to be used in conjunction with the HNU, Anterior Array (sold separately) and the PV Array (sold separately). The PA coil is embedded in the Express detachable table and is invisible to additional surface coils when they are placed directly on top of the surface.

- Elements: 40
- Length: 100 cm; Width: 40cm
- S/I coverage: 100cm head-first or feet-first
- Parallel imaging in all three scan planes
- Head-first or feet-first positioning

HEAD COIL SUITE

The TDI Head and Neck Unit and a split-top T/R head coil are included in this configuration of SIGNA™ Artist.

The TDI Head and Neck Unit comprises a baseplate and anatomically optimized Neuro-vascular, Cervical and Open-face array adapters. The upper end of the HNU can be elevated to enhance patient comfort and access. The TDI HNU is designed to be used in conjunction with the TDI Posterior Array (sold separately) and the AIR™ AA or TDI Anterior Array (sold separately).

- HNU Elements: up to 28 when combined with the PA and AA
- Length: 49.5 cm; Width: 38.8 cm
- Height with Neuro-Vascular Array: 36.8 cm
- Height with Cervical Array: 33.6 cm
- Height with Open Face Adapter: 25.7 cm
- S/I coverage: up to 50 cm with the PA and AA
- Parallel imaging in all three scan planes

SIGNA™Works CLINICAL TOOLKIT EXTENSIONS

The SIGNA™Works clinical imaging tools are organized and optimized to address six clinical work areas: NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks. This offering of SIGNA™ Artist extends the clinical utility and performance of these core toolkits with:

- eDWI enhanced diffusion with Multi-B value and SmartNEX
- DTI diffusion tensor imaging
- FiberTrak post-processing for diffusion tensor to display white matter tracking
- 3D SWAN 2.0 GRE-based multi-echo susceptibility imaging including phase image
- Inhance 2.0 non-contrast MRA suite (3D velocity, 2D inflow, inflow IR, and Deltaflow)
- TRICKS dynamic contrast enhanced, multiphase 3D MRA
- MAVRIC SL 3D FSE-based spectral imaging for MR-Conditional implants
- CartiGram T2 cartilage mapping
- IDEAL FSE 3-point Dixon fat-water separation
- Flex 2-point Dixon fat-water separation for 2D FSE, 3D Cube and GRE
- Cine IR fast gradient echo with IR-prep pulse
- 2D PS MDE phase sensitive tissue characterization with wide bandwidth suppression and single-shot
- Black Blood SSFSE single-shot FSE-based imaging with double IR and triple IR
- StarMap iron assessment for liver and heart (acquisition)

SIGNA™Works ADVANCED RECON, ACCELERATION, APPLICATIONS

SIGNA™Works innovations are designed to enable you to expand your imaging services and deliver on the most complex exams for the most challenging patients with both clinical excellence and efficiency. This offering of SIGNA™ Artist delivers deep-learning based reconstruction and workflow, hyper-acceleration techniques, advanced diffusion techniques as well as advanced applications for MSK imaging, body imaging, cardiac imaging, vessel wall imaging and motion reduction.

- 2D and 3D AIR™ Recon DL Reconstruction
- AIRx™ Auto Graphic Prescription
- HyperWorks Acceleration
- DiffusionWorks Advanced Diffusion
- DISCO, DISCO Star and IDEAL IQ Body Imaging
- Silent Suite and oZTEo MR Bone Imaging
- CardioMaps and Advanced CVWorks Cardiac Imaging
- 3D PROMO Prospective Motion Correction
- Cube MDSE vessel wall imaging

AIR™ Recon DL

AIR™ Recon DL is a deep-learning based reconstruction algorithm applied to the raw scan data to improve SNR and image sharpness. This propriety technique improves image quality at the foundational level by removing image noise and ringing artifacts while enabling shorter scan times. With AIR™ Recon DL:

- Remove noise in images through trained deep learning algorithms
- Enhance productivity by enabling shorter scan times
- Eliminate Gibbs and truncation artifacts with intelligent ringing suppression
- Deliver sharper, clearer and accurate MR images
- Apply a tailored level of AIR™ Recon DL based on preference
- Visualize AIR™ Recon DL images directly at the MR console without reconstruction delays

This configuration provides the 2D and 3D suites of AIR™ Recon DL capability and requires the MR30 software platform (sold separately) and the Gen7 DL image reconstruction computer (sold separately).

- AIR™ Recon DL 2D
- AIR™ Recon DL 2D PROPELLER
- AIR™ Recon DL 3D

AIRx™ Auto Graphic Prescription

Change the way you prescribe brain and knee exams. AIR x™ Auto Graphic Prescription uses deep learning algorithms, instead of an atlas-based method, to identify anatomical structures and prescribe slices locations for brain and knee exams. As a result of the deep learning algorithms, AIRx™ automatically adapts slice prescriptions to various patient anatomies and structures to enable consistency and productivity for slice positioning from technologist to technologist, patient to patient and the same patient overtime.

HyperWorks Acceleration

Advance your acceleration capability. The HyperWorks toolkit comprises a new generation of acceleration tools that employ a variety of optimized approaches to accelerate imaging for a broad range of exams.

- HyperSense 2.0 compressed sensing
- HyperCube tailored RF
- HyperBand simultaneous slice excitation
- HyperMAVRIC SL accelerated spectral imaging

DiffusionWorks Advanced Diffusion

Extend diffusion capability. The Diffusion Package delivers techniques that reduce distortion, correct for motion and increase spatial resolution and performance for diffusion and diffusion tensor imaging.

- PROGRES distortion and motion correction for diffusion
- MUSE multi-shot high-resolution diffusion
- FOCUS DWI 2D slice-selective high-resolution diffusion
- MAGiC DWI diffusion-based synthetic multiple b-value imaging

DISCO, DISCO Star and IDEAL IQ

Go fast with detail. Go breath-hold free. DISCO and DISCO Star enable high-speed dynamic, multi-phase T1 imaging while also enabling high spatial resolution. DISCO enables short breath-hold imaging or free-breathing with Auto-body Navigators. DISCO Star enables free-breathing by utilizing an in-plane radial acquisition to address motion.

Assess liver triglycerides. iDEAL IQ utilizes a multi-echo 3D gradient echo technique to separate fat-water. The water and fat images then produce the fat fraction map, a relative measure of the quantity of fat to total signal (water and fat signal combined) at each voxel in the image.

- DISCO high-resolution permeability imaging
- DISCO Star free-breathing permeability imaging
- LAVA Star free-breathing imaging
- IDEAL IQ liver triglyceride assessment

SILENT Suite and oZTEo MR Bone Imaging

Address noise and motion. Silent Suite comprises the 3D SILENZ Zero-TE sequence and Silent PROPELLER. SILENZ 3D uses high bandwidth excitation and reduced gradient switching to deliver sound levels near ambient while Silent PROPELLER uses a modified gradient waveform approach to reduce acoustic levels to less than 11dB above the ambient room noise while retaining the motion insensitivity of PROPELLER

Extend contrast capability. oZTEo MR Bone imaging utilizes the 3D SILENZ ZTE sequence to complement the conventional soft tissue exam with cortical bone surface information. Automated grayscale inversion provides positive bone contrast. The ZTE sequence can be used for 3D isotropic resolution with inherent motion insensitivity due to the radial acquisition technique. oZTEo can be used with any surface coil that is compatible with SCENIC and includes protocols for common joints such as hip, shoulder, wrist, ankle and knee.

CardioMaps and Advanced CVWorks Cardiac Imaging

Extend cardiac assessment capability. CardioMaps support detection of cardiac pathologies by quantitative measurement of T1 and T2 relaxation times. The T1 Mapping acquisition includes automatic motion correction that compensates for cardiac and/or respiratory motion, providing reliable results. T1 Mapping offers two methods of acquisition: Inversion-recovery Look-Locker with FIESTA readout (MOLLI) for apparent T1 (T1*) measurements or saturation-recovery SMART1Map for true T1 measurements.

FGRE Time Course and 3D Heart with Cine IR, 3D MDE and Cardiac Navigators add additional tools to the CVWorks toolkit for cardiac function, cardiac morphology, and tissue characterization.

- FGRE Time Course cardiac imaging
- Cine IR FGRE-based cine imaging with IR-prep pulse
- 3D Heart cardiac morphology imaging
- 3D MDE tissue characterization
- Cardiac Navigators

3D PROMO Motion Correction

Correct for motion prospectively on 3D imaging. 3D PROMO prospective motion correction uses a real-time 3D navigator-based technique to correct for motion, and is compatible with 3D Cube T2W, DIR and T2 FLAIR contrasts.

CUBE Vessel Wall Imaging

MR Vessel Wall Imaging is enabled with 3D Cube MSDE (Motion Sensitive Driven Equilibrium). The MSDE preparation pulse suppresses flowing blood signal for better vessel wall contrast and depiction of plaque, also known as black-blood imaging. The velocity suppression target (cm/s) and the applied MSDE direction is user selectable. Cube MSDE is compatible with HyperSense and ASPIR fat saturation.

For a period of 3 years from Equipment Acceptance, GE Healthcare will provide Customer (as part of the Equipment warranty) with the following software changes to the extent they maintain existing software features of the Equipment and are made generally available to GE Healthcare's installed customer base as part of warranty: (i) updates, which consist of error corrections or modifications; (ii) interface modifications; and (iii) security patches that have been validated by GE Healthcare to be compatible with the Equipment. Software upgrades (including revisions or enhancements to (i) the Equipment's software or (ii) separately licensed Software), which improve or expand existing software features and are made generally available for purchase under a separate GE Healthcare license, are excluded. Additional hardware

required to implement the software changes are excluded. GE Healthcare remote connectivity to the Equipment is required per GE Healthcare terms and conditions.

PLEASE NOTE:

The SIGNA™ Artist system comprises several essential elements that are described and quoted separately. These elements include:

- SIGNA™ Artist Magnet, RF, and Gradient Assembly
- SIGNA™Works MR30.1 Software and Clinical Applications Toolkits
- Host PC and Operator Console (GOC)
- Image Reconstruction Computer (ICN)
- AIR™ or TDI Anterior Array

| Line | Qty | Catalog | |
|---|---|---|---|
| 3 | 1.00 | M7088PC | **Wired Fiber-Optic ECG Gating** |

Electrical impulses cause the heart to contract and, therefore, blood to flow throughout the body. The electrical activity of the heart can be can be detected by measuring the voltage difference between electrodes attached to the patient. The voltage differences can be mapped by an ECG and the resulting ECG waveform can be used during cardiac gating/triggering to reduce pulsatile cardiac motion by synchronizing data acquisition to the cardiac cycle. The ECG gating devices are safe for patients due to the fiber-optic technology.

| Line | Qty | Catalog | |
|---|---|---|---|
| 4 | 1.00 | M7130HD | **SIGNA™ ARTIST 1.5T MAGNET, RF and GRADIENT ASSEMBLY** |

The magnet, RF-architecture and gradient technology on SIGNA™ Artist are designed to deliver the signal-to-noise, dynamic range, spatial resolution, and temporal resolution needed to enable demanding clinical applications with exceptional image quality, operational excellence, and patient comfort.

TECHNOLOGY FOUNDATION

- Magnet and Enclosures
- TDI RF-Receive Technology
- XRMw Gradient Technology
- Quiet Acoustic Reduction Technology

MAGNET and ENCLOSURES

The SIGNA Artist 1.5T system features a wide bore magnet that delivers a large field of view. The magnet geometry has been optimized to reduce patient anxiety by providing more space in the bore and more exams with the patient's head outside of the magnet. The 55cm field of view (50cm in Z direction) provides uniform image quality and can reduce exam times since fewer acquisitions may be necessary to cover large areas of anatomy. Complemented by GE's active shielding technology, the Artist has very flexible installation specifications to provide easy siting, and with zero-boil-off magnet technology, helium refills are effectively eliminated, thus reducing operating costs and maximizing uptime.

- Manufactured by GE Healthcare.
- Operating field strength 1.5T (63.86 MHz).
- Active magnet shielding
- Zero boil-off Cryogens.
- Magnet length 179cm.
- Patient Aperture 76 cm.
- Patient Bore Diameter 70cm.
- Patient Bore Length 105cm.

Magnet homogeneity with typical ppm and Guaranteed ppm shown. (DSV = Diameter Spherical Volume.

- 10cm DSV 0.007 and 0.02.
- 20cm DSV 0.035 and 0.06.
- 30cm DSV 0.10 and 0.15.

- 40cm DSV 0.33 and 0.43.
- 45cm DSV 0.88 and 1.0.
- 48cm DSV 1.75 and 2.0.
- 50cm DSV 2.8 and 3.3.

Fringe field (axial x radial):

- 5 Gauss = 4.0 m x 2.5 m.
- 1 Gauss = 5.8 m x 3.2 m.

TOTAL DIGITAL IMAGING

SIGNA™ Artist features the Total Digital Imaging RF-architecture with a 64-channel configuration. The TDI RF-architecture uses a Direct Digital Interface (DDI) to convert the signal from each coil element to a digitized signal (there is no mixing of signal from multiple elements to the same digitizer) to deliver high signal, low noise with extended dynamic range or gray-scale capability.

- 64ch Total Digital Imaging (TDI)
- Direct Digital Interface (DDI)

XRMw GRADIENT TECHNOLOGY

SIGNA™ Artist incorporates the latest MR gradient technology with the wide eXtreme Resonance Module (XRMw). The XRMw gradients deliver 44 mT/m peak amplitude, up to 200 T/m/s instantaneous peak slew-rate on each axis with unmatched fidelity, accuracy, and reproducibility (please refer to system datasheet for additional information). The XRMw gradients are water-cooled and equipped with integrated thermo-electric cooling panels to provide excellent stability and duty-cycle for gradient intensive applications.

- Peak amplitude per axis: 44 mT/m
- Up to 200 T/m/s instantaneous peak slew rate per axis
- Maximum FOV: 55 cm x 55 cm x 50 cm
- Duty Cycle: 100%

ACOUSTIC REDUCTION TECHNOLOGY

GE has implemented Quiet Technology on critical components of the SIGNA™ MR system to reduce acoustic noise and improve the patient environment. This technology enables full use of the UHE Gradient Platform for excellent image quality, while maintaining a safe environment for the patient. The technology encompasses the gradient coil, RF body coil, and magnet mounting. Quiet acoustic reduction uses 5 levels of isolation, dampening and gradient optimization technology to mitigate vibration and mute sound.

- Gradient & RF coil isolation – isolates the resonance module from the magnet
- Vibro-acoustic isolation –isolates the magnet from the building
- Mass-damped acoustic barriers – further mutes sound
- Gradient waveform optimization – user selectable

| Line | Qty | Catalog | |
|---|---|---|---|
| 5 | **1.00** | **M7132ST** | **MR 30.1 Software for SIGNA™ Artist** |

MR 30.1 for SIGNA™ delivers the foundational operating software, pulse sequence families, clinical applications toolkits, and visualization toolkits as well as acceleration and motion correction tools. MR 30.1 for SIGNA™ software features several new enhancements that improve Exam, Patient Setup and Scanning workflows.

MR 30.1 for SIGNA™ is the latest platform software to bring the highest performance to SIGNA™ MR. MR 30.1 introduces several base security, workflow and image quality enhancements, as well as enabling GE Healthcare's the latest innovations in Deep Learning Reconstruction*. Each scanner running MR 30.1 Platform will enjoy industry-leading cybersecurity features* by upgrade to Secure Scientific Linux (SLES 15), enabling the latest features for securing the scanner against bad actors and other threats for years to come. MR 30.1 software brings in additional workflow efficiency, including a new Window Width/Window Level feature that applies consistent levels across all images in the database; simplified setup for Automatic Phase Correction; an improved phase correction algorithm for LAVA FLEX* images and a Motion Compensation option when using Cardiac T1-Mapping applications such as FIESTA. The system will also now support a system preference to set the orientation of axial Breast images. Systems already equipped with HyperSense* will see the feature expanded to support SWAN and

Contrast Enhanced MRA applications. The MR 30.1 for SIGNA™ software release brings AIR™ Recon DL* 3D, motion-insensitive PROPELLER and a host of additional applications such as DTI, FSE Flex, CartiGram, as well as phase sensitive MDE and MoCo MOLLI T1 mapping for cardiac imaging.

(* indicated applications may be purchasable options for certain regions and systems).

The latest enhancements include several key improvements to Exam, Patient Setup and Scanning workflows:

- Split Exam create/assign separate exam number for a sub-set of series
- AIR™ Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and FOCUS DWI imaging
- Whole-Body automated multi-station localizer and auto pasting
- Whole-Body automated multi-station FSE-IR, 3D SPGR and DWI imaging
- SnapShot SSFSE multi-slice per breath-hold imaging
- Cube flexibility for modifying/reducing scan time
- Dynamic phase correction for FSE imaging
- Uniformity optimization for large FOV body diffusion
- Flexible ZIP allows for flexible resolution by percentage to enhance the sharpness while decreasing the scan time

EXPRESS EXAM WORKFLOW

MR 30.1 for SIGNA™ workflow tools comprise the modality worklist, protocol libraries, workflow manager, auto-functions, inline viewing and inline processing. Together these tools are designed to help change the way you work by simplifying and accelerating the scanning process from set-up to acquisition to post-processing. With MR 30.1, workflow can begin before the patient enters the magnet room and exams can be completed with a few mouse clicks delivering quality and consistency for all patients and from all technologists. At the same time, MR 30.1 workflow maintains the flexibility needed to rapidly adapt and optimize exams for specific patient situations.

MR30.1 Workflow delivers new capabilities that speed set-ups for all exams and streamline scanning for multi-station and combination exams. With MR30.1 Workflow, scan set-up starts with Modality Worklist, an automated method to obtain patient, exam and protocol information from a DICOM work-list server. For sites with full DICOM connectivity, once a patient has been selected from the Modality Worklist, the In-Room Operator Console will automatically highlight the relevant exam details. The Modality Worklist enables complete control of the MR protocol prescription, but also reduces work by allowing the MR protocol to be selected and linked to the patient record in advance of the patient's arrival.

Protocol Tools enable exam automation while also giving the user complete control of protocols for prescription, saving, searching, and sharing. Protocols are organized in two libraries: GE Optimized (preloaded protocols) and Site Authored (customized and saved). Protocols can be saved based on patient demographics, anatomy, scan type, or identification number for rapid search and selection. Commonly used protocols can be flagged as favorites for quick selection from the Modality Worklist.

In addition to pre-programmed protocols, ProtoCopy enables a complete exam protocol to be shared with the click of a mouse. GE protocols provided with the system include Protocol Notes designed to guide the user through the procedure. For special applications, Protocol Notes also include video guides with step-by-step video-based demonstration and instruction. Protocol Notes can be edited by the user to reflect protocol modifications to aid communication among users.

With the patient positioned, IntelliTouch and AIR Touch™ together simplify coil selection to one touch and one click. AIR Touch™ automatically determines coil element locations based on the IntelliTouch landmark and intelligently generates the coil configuration with elements activated to optimize image quality for coverage, uniformity, and parallel imaging acceleration factor.

At the console, the MR 30.1 WorkFlow Manager implements the selected protocol. The Workflow Manager controls location prescription, acquisition, processing, visualization, and networking, and can fully automate these steps, if requested by the user. Once the target anatomy has been prescribed, the Linking feature can be used to translate appropriate parameters to all subsequent series that have been linked, eliminating the need for further action by the user.

When selected, AutoStart will automatically initiate the localizer, coil selection, series-to-series scanning, multi-station scanning, prescription of scan plans for brain exams, as well as delivered instructions to the patient.

- Pause and Resume allows the user to pause a scan in progress (even in automated mode), to respond to a patient need, and then resume mid-scan without starting the scan over.

- For breath-hold scanning, Auto Protocol Optimization provides automated alternative choices for spatial resolution and breath-hold time based on the original protocol. Technologists are liberated from troublesome scan time and image quality adjustments by selecting from pre-calculated options determined by the system.
- Whole Body Localizer automates the acquisition and pasting of multi-station scans for planning, and Whole-Body Imaging enables automated multi-station scanning with FSE-IR, 3D SPGR and DWI diffusion contrasts.
- Once scanning and processing are complete, Split Exam provides the capability to extract a subset of series from multi-station and combination exams to create/assign a separate exam number for accession numbers in billing and PACS systems.

Inline Processing automatically completes post-processing steps for the user after the images have been reconstructed and saved into the database. For certain tasks, such as vascular segmentation, the user must accept the results, or complete additional steps prior to saving the images to the database. These automated processing steps can be saved to the (scan) protocol to ensure consistent output and workflow:

- Diffusion weighted series: automatic compute and save
- Diffusion tensor series: automatic compute and save
- eDWI: automatic compute and save
- Image filtering: automatic compute and save
- Maximum/Minimum Intensity Projection: automatic compute and save
- Pasting: automatic compute and save
- Reformat to orthogonal plane: automatic compute and save
- T2 map for cartilage: automatic compute and save
- 3D Volume Viewer: automatic load
- Image Fusion: automatic load
- Interactive Vascular Imaging: automatic load
- FiberTrak: automatic load
- Spectroscopy: automatic load

MR 30.1 for SIGNA™ TECHNOLOGIES

The acceleration, motion correction and tissue suppression technologies in MR 30.1 for SIGNA™ are designed to address overall workflow, rescans and scan time as well as the impact of challenging patients, challenging anatomy and challenging physiology.

Acceleration Technology

MR 30.1 for SIGNA™ delivers a suite of acceleration techniques designed to help address acquisition time.

- Smart Algorithm AIR™ Recon uses a smart reconstruction algorithm to address background noise and artifacts enabling enhanced image quality without the need for longer scan times and is compatible with critical imaging sequences including PROPELLER MB, 3D Cube, and FSE.
- ARC parallel imaging reduces scan time by using an adaptive auto-calibrating (data-driven) technique to selectively acquire data. As a result, ARC enables smaller FOV prescription with less sensitivity to motion and coil calibration artifacts.
- ASSET parallel imaging reduces scan time using an array spatial sensitivity (image driven) technique. ASSET takes advantage of the data produced by the multiple coil elements to reduce the total data needed to create an image.
- Flexible No Phase Wrap reduces scan time by reducing the number of increments acquired to address wrap-around based on a flexible user-selectable factor.
- Fraction NEX reduces scan time by reducing the number of data averages.

Motion Correction Technology

Enable free-breathing body exams and address the effects of motion with patient-adaptive technologies that proactively detect and correct for motion without hardware dependencies or the need for user intervention.

- Auto Body Navigators deliver real-time, respiratory motion compensated imaging for a broad range of sequences, including T1w dynamic contrast-enhanced imaging. Auto Body Navigators use a software-based tracking pulse that is automatically placed for the user and allows on-the-fly adjustment to adapt to challenging patient circumstances, again without the need for hardware.
- PROPELLER MB combines radial acquisition and motion correction post-processing to mitigate the effects of motion without the need to position the patient over a sensor. PROPELLER MB can be used to generate T1, T2, PD, T1 FLAIR, and T2 FLAIR contrasts and is compatible with Auto Body Navigators to enable usage for a broad range of exams. With MR 30.1 for SIGNA™, PROPELLER MB motion correction benefits

from AIR™ Recon smart algorithm image quality.

Tissue Suppression Technology

Modify the contribution of fat or water signal with multiple tissue suppression techniques.

- FatSat uses a frequency selective pulse to target and suppress the signal from fat
- WaterSat frequency selective water suppression
- STIR inversion pulse fat or water suppression
- SPECIAL frequency selective fat suppression
- ASPIR spectrally selective fat suppression
- Flex 2-point Dixon techniques to separate fat and water signals

MR 30.1 for SIGNA™ CLINICAL APPLICATIONS

MR 30.1 for SIGNA™ clinical imaging tools are organized and optimized to address six clinical work areas: NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks. Each clinical toolkit comprises pre-programmed protocols, clinical applications and visualization tools designed for the challenges of each imaging area. The resulting capability starts with simplified prescription and protocol set-up. Imaging capability extends to patient management and clinical workflow enhancements. Post-processing capability augments the portfolio with specialized tools designed to speed the review and processing tasks typically performed.

NeuroWorks Toolkit

- READYBrain auto-align for automated brain exam prescription
- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- PROPELLER DW Duo FSE-based diffusion with susceptibility reduction
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or white matter nulling
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- 3D FIESTA and 3D FIESTA-C fast steady state imaging
- PSIR – Phase Sensitive Inversion Recovery
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing which include time series, DWI/ADC maps, DTI, variable echo, BOLD, and spectroscopy (SV, 2D, 3D)

OrthoWorks Toolkit

- FSE and frFSE fast spin echo imaging suites with dynamic phase correction
- High Bandwidth distortion reduction for FSE
- FatSat, STIR, SPECIAL, ASPIR, Spectral Spatial fat-suppression tools
- MARS High Bandwidth distortion reduction for FSE
- PROPELLER MB motion robust radial FSE with T1, PD, T2 and Fat Suppression (STIR and ASPIR)
- 3D Cube 2.0 FSE-based imaging with T1, T2, and STIR
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- MENSA NERVE for optimized nerve contrast
- READYView post-processing

BodyWorks Toolkit

- Auto Navigators diaphragm tracker for free-breathing scanning
- PROPELLER MB motion robust radial FSE with T1 and Fat Suppression (STIR and ASPIR)
- 3D Cube FSE-based imaging with T1, T2, and STIR
- 3D Dual Echo gradient echo in/out phase imaging

- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- 3D MRCP frFSE imaging
- 2D Fat Sat FIESTA fast steady state imaging
- Enhanced SSFSE Snapshot multi-slice imaging
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring

OncoWorks Toolkit

- Auto Navigators diaphragm tracker for free-breathing scanning
- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- PROPELLER DW Duo FSE-based diffusion imaging with susceptibility reduction
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or while matter nulling
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- Enhanced SSFSE Snapshot multi-slice imaging
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- READYView, BrainView and BodyView post-processing

CVWorks Toolkit

- Auto Navigators diaphragm tracker for free-breathing scanning
- iDrive for free breathing cardiac planning
- 2D FIESTA Cine gated steady-state, multi-phase imaging
- 3D FS FIESTA steady-state imaging with Fat Sat
- 2D/3D Time-Of-Flight & 2D Gated Time-of-Flight
- 2D/3D Phase Contrast & Phase Contrast Cine
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- 3D QuickStep automated multi-station imaging
- READYView post-processing

PaedWorks Toolkit

- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or while matter nulling
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- 3D FIESTA and 3D FIESTA-C fast steady state imaging
- Auto Navigators diaphragm tracker free-breathing scanning
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- 3D LAVA GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging (breath-hold or free-breathing)
- Enhanced SSFSE Snapshot multi-slice imaging
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing

READYView Advanced Visualization

READYView is an MR 30.1 advanced visualization tool designed to simplify the quantitative analyses of multiple data sets. READYView automatically selects the most relevant post-processing protocol for the user and provides guided workflow and general assistance for the processing algorithms. In addition, the user can customize workflows with adjustable layouts, personalized parameter settings and custom review steps. Key capabilities of READYView include the ability to analyze, export and save:

- Time series
- Diffusion weighted series
- Diffusion tensor series
- Variable echo series
- Blood oxygen level dependent (BOLD) series fMRI processing
- Spectroscopy data (single voxel and 2D or 3D CSI)
- MR Touch (MR elastography) series

| Line | Qty | Catalog | |
|---|---|---|---|
| 6 | **1.00** | **M71014ED** | **SIGNA_LX1.MR30.1 eDelivery item - Artist** |

Software eDelivery is used to associate the MRI scanner with GE HealthCare's remote software delivery infrastructure. No items are being delivered physically or electronically. (For tracking purpose only – non purchasable catalog)

| Line | Qty | Catalog | |
|---|---|---|---|
| 7 | **1.00** | **M7088GC** | **SIGNA™ Artist MR30 GOC** |

Computing Platform

The MR30 upgrade takes SIGNA™ Artist to the latest computing performance level that utilizes a parallel, multi-processor design to enable simultaneous scanning, reconstruction, filming, post-processing, archiving and networking. The host computer uses the SuSe Linux Enterprise Server operating system and a single tower configuration. (The reconstruction engine is sold separately and offers a choice of performance levels.)

Host PC Platform – Intel Xeon W-2123 CPU

- Memory: 64 GB
- Hard Disk Storage: 1024 GB SSD
- Media Drives: CD/DVD

| Line | Qty | Catalog | |
|---|---|---|---|
| 8 | **1.00** | **M7079EB** | **Gen 7 DL Performance ICN** |

Computing Platform and DICOM Conformance

SIGNA™Works MR systems enhance data reconstruction with the Orchestra platform and Smart AIR™ Recon. The Orchestra computing toolbox enables the integration of advanced reconstruction elements to support demanding, data-intense, applications as well as access to the reconstruction algorithms. AIR™ Recon uses a smart reconstruction algorithm that reduces background noise and artifacts enhancing image quality without the need for longer scan times.

- Reconstruction Engine: Gen7 Dual Intel Xeon Gold 5118 processor
- Memory: ≥128 GB
- Hard Disk Storage: 960 GB SSD
- 2D FFT/second (256 x 256 Full FOV): 63,000 2D FFT/second
- Orchestra reconstruction toolbox
- AIR™ Recon reconstruction

SIGNA™Works MR systems generate MR Image, Secondary Capture, Structured Report, and Gray Scale Softcopy Presentation State DICOM objects. The DICOM networking supports both send and query retrieve as well as send with storage commit to integrate with PACS archive. Refer to the DICOM Compliance Statement for details.

| Line | Qty | Catalog | |
|---|---|---|---|
| 9 | 1.00 | M7006VF | **SIGNA Artist 96-Channel Option** |

SIGNA Artist 96-Channel Option

| Line | Qty | Catalog | |
|---|---|---|---|
| 10 | 1.00 | S7530AZ | **Preinstallation Collector and Cable Concealment Kit** |

The Preinstallation Collector delivers to the site in advance of the magnet and main electronic components. This facilitates the later delivery and installation of supporting electronics. The following are the main components in the Preinstallation collector:

- Heat exchange cabinet for distribution of chilled water.
- Primary Penetration wall panel for support of the penetration cabinet.
- Secondary Penetration wall panel for support of gradient filters, helium cables, and chilled air and water.
- Helium cryocooler hose kit.

The Cable Concealment Kit accommodates a wide-range of scan room ceiling heights and is designed to provide a clean-look installation by concealing the overhead cabling from view.

| Line | Qty | Catalog | |
|---|---|---|---|
| 11 | 1.00 | M6001AA | **Vent Adapter, Standard 8" Straight Up** |

Vent Adapter, Standard 8" Straight Up

| Line | Qty | Catalog | |
|---|---|---|---|
| 12 | 1.00 | M7088CA | **Artist/Artist EVO System Cables, Config A: Short Scan Room, Short Equipment Room** |

Artist/Artist EVO System Cables, Config A: Short Scan Room, Short Equipment Room

| Line | Qty | Catalog | |
|---|---|---|---|
| 13 | 1.00 | M8686SR | **Gradient Cable Kit Placeholder – Scan Room** |

Gradient Cable Kit Placeholder – Scan Room

| Line | Qty | Catalog | |
|---|---|---|---|
| 14 | 1.00 | M8686EQ | **Gradient Cable Kit Placeholder – Equipment Room** |

Gradient Cable Kit Placeholder – Equipment Room

| Line | Qty | Catalog | |
|---|---|---|---|
| 15 | 1.00 | M7100ZA | **Main Disconnect Panel** |

Main Disconnect Panel

| Line | Qty | Catalog | |
|---|---|---|---|
| 16 | 1.00 | M1000MW | **Operator Console Table** |

The Operator Console Table is designed specifically for the color LCD monitor and keyboard.

| Line | Qty | Catalog | |
|---|---|---|---|
| 17 | 1.00 | M3335JZ | English Keyboard |

Required for our operator console. This keyboard is ergonomically designed to keep your staff comfortable even through the longest shifts. The scan control keyboard assembly has an intercom speaker, microphone, volume controls and emergency stop switch.

| Line | Qty | Catalog | |
|---|---|---|---|
| 18 | 1.00 | R32052AC | MR Service Key Class A2 Warranty 1 year |

The Standard Service 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.

| Line | Qty | Catalog | |
|---|---|---|---|
| 19 | 1.00 | M7012SA | Sonic DL™ Cardiac Cine |

Sonic DL™ is a Deep Learning based parallel imaging technique that can accelerate the scans with significantly higher acceleration factors. Sonic DL™ uses a neural network to reconstruct images from under-sampled acquisitions. The network is trained to handle significantly higher acceleration factors.

Sonic DL™ Cine adds a new imaging option and an updated acceleration tab. This product is currently compatible only with the 2D FIESTA CINE application. Sonic DL™ Cine provides up to 12-fold acceleration, during breath-hold or free-breathing.
The higher acceleration factors allow acquisition of the CINE data within a single heart beat (1RR) per slice, with clinically acceptable IQ and temporal resolution. The 1RR acquisition can also be acquired with Respiratory triggering.

NOTE: Sonic DL™ requires GEN 7 DL ICN and MR30.1 base software, and Sonic DL™ license also requires AIR™ Recon DL 2D license.

| Line | Qty | Catalog | |
|---|---|---|---|
| 20 | 1.00 | M7000EG | VIBRANT |

VIBRANT (Volume Imaged BReast AssessmeNT) is a fast, high resolution T1 weighted imaging sequence and application optimized for evaluation of breast tissue. VIBRANT uses GE exclusive technology and parallel imaging acceleration to quickly acquire multi-phase data without compromising spatial resolution. This 3D gradient echo technique, optimized for sagittal or axial acquisitions, uses an optimized inversion pulse and dual-shimming technology that yields enhanced image contrast and robust, uniform, bilateral fat suppression. Auto subtraction of the first dataset is also available to further background suppression. For enhanced speed, VIBRANT is compatible with both ASSET and ARC parallel imaging with acceleration factors up to four. As a result, VIBRANT enables reliable, high quality breast imaging.

For improved tissue contrast, VIBRANT is compatible with Flex imaging (sold separately). VIBRANT Flex acquisition will provide a water-only, fat-only, in-phase and out of phase data sets in a single acquisition and produce images with significantly reduced chemical shift and susceptibility artifacts. This is critical for evaluation of the axilla and chest wall.

| Line | Qty | Catalog | |
|---|---|---|---|
| 21 | 1.00 | M7000EZ | Flow Analysis 4.0 |

Flow Analysis automates the review and analysis of gated phase contrast magnetic resonance (MR) images and generates a report for the referring physician. This version is available on the host computer.

Flow Analysis has an automated edge detection algorithm that propagates through all the phases of the cine phase contrast series.

The flow analysis measurement tab displays a summary chart of peak velocities in addition to individual velocity results from each phase of the cardiac cycle. A background correction may also be applied which is particularly suited to slow flowing fluid such as cerebrospinal fluid.

Customizable Macros are a feature of Flow Analysis 4.0. These Marcos allow the user to quickly write a report specific to the patient being assessed with simple mouse clicks. The macros are customizable to reflect the language used by the reporting physician.

Flow Analysis offers the capability to archive reports or cine images as seen in a DICOM format so they may be viewed on any DICOM viewer.

| Line | Qty | Catalog | |
|---|---|---|---|
| 22 | 1.00 | M7006NB | 1.5T 30-channel AIR Anterior Array |

The 30-channel AIR Anterior Array (AIR AA) is the next generation anterior array coil that allows flexibility in all directions to conform to the patient's anatomy. Based on the innovative technologies behind the Inca conductor and the Emode electronics, the AIR AA provides uncompromised SNR and acceleration performance, while improving the overall patient and user experience. The coil has been designed to adapt various patient shapes and sizes, with an ultra-light weight distribution. The AIR AA can be used for torso, cardiac, abdomen, prostate, pelvis, hip, whole-body and peripheral vascular examinations, in conjunction with other coils.
On SIGNA Artist requires DV27 software or higher.

| Line | Qty | Catalog | |
|---|---|---|---|
| 23 | **1.00** | **M7006CE** | **1.5T 16-Channel T/R Hand-Wrist Coil** |

The 1.5T 16-Ch T/R Hand Wrist Coil is a transmit and receive MRI RF coil intended for obtaining diagnostic images of patient hand and wrist anatomies. The coil consists of two saddle coils driven in quadrature capable of both transmitting and receiving, along with an array of sixteen surface receive elements. The transmit coil consists of two orthogonal saddles, which is a volume transmit coil for transmitting RF magnetic field into human tissue during transmit phase, and can function as a receive coil for receiving MRI signal from human tissue during receive phase. The device includes two rigid, plastic bases which the coil can be attached to and removed as desired. One positions the coil for horizontal wrist imaging, and one positions the coil for vertical wrist imaging. In the horizontal position, position of the coil can be adjusted along the base to accommodate imaging of either the left or right hand. Foam pads are also provided as accessories to aid in patient immobilization, anatomy positioning, and to enhance patient comfort.

Compatible only with MR systems that have 32-channels or more. Not compatible with 16-channel systems. Requires software 26.0 R02 or higher for DV products and 26.2 or higher for Voyager.

| Line | Qty | Catalog | |
|---|---|---|---|
| 24 | **1.00** | **S7529QT** | **1.5T AIR™ MP Arrays and 16CH T/R Knee** |

This promotional coil package comprises:

- Large and Medium Multi-Purpose AIR™ Coils with coil positioner kit
- 16ch T/R Knee Array

The 21-channel 1.5T AIR™ MP Large and the 20-channel 1.5T AIR™ MP Medium Arrays utilize innovative AIR™ Coil technologies to expand positioning versatility, enhance patient and user experience, and deliver high performance acceleration and image quality.

These next generation multipurpose coils are designed to conform to various patient shapes and sizes and allow positioning in any direction. AIR™ MP Coil Large Array is recommended for use for Shoulder, Knee, Foot, Ankle, Hip, and Prostate imaging, and the AIR™ MP Coil Medium is recommended for Wrist, Elbow, and Cardiac Imaging.

The AIR™ MP Coil Positioner Kit provides a knee positioner, a foot-ankle positioner, a wedge pad, a U-shaped pad, and a strap kit. The Positioner Kit is compatible with both AIR™ MP Large and Medium Coils for positioning.

The 16-channel 1.5T Knee coil is a transmit/receive phased array design optimized for high resolution imaging of the knee with parallel imaging acceleration in 3 directions to address acquisition time. The coil is sized to accommodate a broad range of patient sizes and features a two-part design to address workflow. Offset imaging is fully supported with adjustable left-right coil positioning.

| Line | Qty | Catalog | |
|---|---|---|---|
| 25 | **1.00** | **E8800XA** | **NeoCoil Sentinel G1 Wireless Music System for MRI Systems** |

The NeoCoil Wireless Audio/Music system provides audio entertainment and facilitates communications between the patient and technologist. Wireless solution eliminates multiple cords and standard 3.5mm audio jack allows any compatible music source.
Integrates audio entertainment, the technologist's voice, and AutoVoice for optimum patient communication
MR Conditional wireless audio system for use with high field MRI up to 3.0T
Dramatically attenuates gradient noise
When the technologist uses the intercom or when the feature AutoVoice is used, the music is interrupted for clear communication
Wireless solution operates on 3 batteries

Package includes:
Wireless 29dB headphones (over-ear)...uses 2 battery packs
Wireless airtube/earbud assembly (in-ear)...uses 1 battery pack

Disposable 29dB earbud inserts, 125 pair (250/box)
Battery charging dock (can wall mount or desk; charges up to 4 batteries in under 6 hours)
Audio cable, 3.5mm
(3) Individual Li-Po 3.7V Battery Packs (rated for 12 hours continuous use)
Transmitter and console interface - wall-mounted transmitter including couplers for penetration panel (2.4 GHz ISM band)
Audio Source - Amazon® Fire® tablet, tablet stand, tablet lock, and (2) speakers

GE MRI compatibility:
Compatible with all MRI systems including Creator/Explorer v25.3 and Pioneer hardware v26.1

| Line | Qty | Catalog | |
|---|---|---|---|
| 26 | **1.00** | **E8800XH** | **Neocoil Individual battery packNeoCoil Individual Li-Po 3.7V Battery Pack for Sentinel G1** |

- Removable battery pack for use with NeoCoil wireless system
- Rechargeable Li-Po 3.7 V
- 1000 mAh
- 12 hours of continuous use
- Complete system (E8800XA and E8800XK) already includes this item
- Expected life of approximately 1 year

| Line | Qty | Catalog | |
|---|---|---|---|
| 27 | **1.00** | **E8822JB** | **Sanitary Covers for Headset - 1000/Box** |

Sanitary covers for audio headsets. Packaged 1000 units per box.

| Line | Qty | Catalog | |
|---|---|---|---|
| 28 | **1.00** | **E8912CA** | **Dimplex MR Heat Exchanger 49kW - Standard Ambient Temp** |

NOTE: Item is NON-RETURNABLE and NON-REFUNDABLE
GE Heat Exchangers - 49kW (20Tons)

Cooling for your GE Healthcare MR system has never been so easy. GE Healthcare has partnered with the Glen Dimplex Group, a world leader in cooling systems, to offer heat exchangers designed to meet the needs of your MR System. Now you can look to GE Healthcare for your entire MR purchase and support.

This heat exchanger is highly reliable and the only unit verified to perform with the new platform of GE Healthcare MR systems. As part of your integrated GE Healthcare solution, you'll work with a single contact throughout the whole installation. A Project Manager of Installation will help with building layout, room designs, delivery and installation - every step until your system is ready to scan. Our team will work seamlessly with architects, contractors and your internal team to help ensure timely, cost-effective completion.

Once your cooling system is running, you'll get fast, highly-skilled service support managed through GE Healthcare - with the same quality and response time you expect from your MR system.

FEATURES AND BENEFITS
- Designed to provide stable fully dedicated cooling for your MR system's needs
- Water/glycol outdoor-air-cooled heat exchangers to support your highest exam volumes and your full range of diagnostic procedures
- Redundant fluid pumps with automatic switchover let you keep operating with no loss of cooling even if one pump goes down
- Quad compressor, dual tandem refrigeration circuit design saves on energy while your system smoothly transitions through the 10% to 100% heat load capacity cycles of patient scanning and idling
- Quiet operation between patient exams and overnight - ideal for facilities in residential areas
- Comes with installation support, installation visits, preventative maintenance visit and 1 full year of parts and labor warranty
- Installation support includes: support through GE's Project Manager of Install, GE's Design Center, technical support from the Glen Dimplex company, two (2) installation visits
- Comprehensive and quality service rapidly delivered through our CARES service solution
- 65 gallons of 100% glycol concentrate for complete system filling and diluting
- Wall mounted remote display panel provides the ability to monitor the system's operation and indicates possible system errors

- Filter kit with flow meter helps to ensure purity of water prior to entry to the MR system
- Highly recommended that Vibration Isolation Spring Kit (E8911CJ) be added for systems that will be roof top mounted

SPECIFICATIONS
- Net Cooling Capacity: 49 kW / 20 Ton
- Maximum Coolant Flow: 35 gpm (132 l/m)
- Coolant Outlet Temperature: 48 F (8.9 C)
- Coolant Temp Stability: E 1.8 F ( E1.0 C)
- Max Coolant Pressure : 70 Psi (4.8 Bar)
- Refrigerant: R407C
- Ambient Temp Range: -20 to 120 F (-30 to 50 C)
- Condenser Air Flow (Approx): 18,000 Cfm
- Tank Capacity: 100 gal (378 l)
- Flow Meter Range: 4-40 gpm
- Filters: 50 micron cartridge filters
- Supply Voltage: 460v / 3 phase / 60 Hz
- Coolant Connections: 2"" NPTF
- Overall Size (L x W x H) 44"" x 136"" x 84.5""

COMPATIBILITY:
- GE MR450w or MR System

| Line | Qty | Catalog | |
|---|---|---|---|
| 29 | **1.00** | **E8911CG** | **Manual Cryogen Compressor Water Bypass** |

NOTE: Item is NON-RETURNABLE and NON-REFUNDABLE
GE MR Heat Exchanger Manual Cryogen Compressor Water Bypass Option

Add a level of magnet protection with a Manual Cryogen Compressor Bypass. In case of a power failure, you can cycle municipal or facility water through the cryogen compressor and reduce cryogen loss and reduce the likelihood of quenching.

FEATURES AND BENEFITS
- Easy to install and simple to use
- Helps switch over water supply to your cryogen compressor in the event of loss of power to reduce cryogen loss
- Includes fluid supply pressure gauge, temperature gauge and flow rate meter for easy verification of operation
- Manual operation reduces unintentional switch-overs and coolant dumping during brown-outs and supply power glitches

COMPATIBILITY
Must be used with a GE MR Heat Exchanger:
- E8911CA
- E8911CB
- E8911CC
- E8911CD
- E8912CA
- E8912CB
- E8912CC
- E8912CD

| Line | Qty | Catalog | |
|---|---|---|---|
| 30 | **1.00** | **E8802MC** | **MR Signa Wide Security Straps** |

Wide security strap set - includes one strap with Velcro and one strap with plastic buckle; 14 in. wide. For use with GE Signa MR systems.

| Line | Qty | Catalog | |
|---|---|---|---|
| 31 | **1.00** | **E8802MD** | **MR Signa Narrow Security Straps** |

Narrow security strap set - includes one strap with Velcro and one plastic buckle; 6 in. wide. For use with GE Signa MR systems.

| Line | Qty | Catalog | |
|---|---|---|---|
| 32 | 1.00 | E4504FP | **Eaton Single Phase 700 VA Partial UPS (MR package)** |

Notes:
- Customer is responsible for rigging UPS unit
- Item is non-returnable and non-refundable
- Removal/disposal of the old unit is the customer's responsibility

Using an uninterruptible power supply (UPS) can help improve user productivity and system reliability, as well as reduce service costs and increase system uptime.
Combining reliable double-conversion topology, internal static bypass and an easy-to-ready LCD menu display, the Eaton 9SX UPS provides the highly efficient and reliable power you expect from a 9-series UPS in a convenient tower form factor.

Applications
The Eaton® Single Phase 9SX 700 VA Partial UPS package is designed to support a variety of GE MR imaging systems. When Catalog# E4504FP is used with MR SIGNA™ Voyager, SIGNA™ Pioneer, SIGNA™ Premier, SIGNA™ Architect or SIGNA™ Hero systems, the configuration requires ordering a specific power cable (catalog# E4504FN).

Maintain productivity, improve reliability

Reliable power for critical systems
The 9SX offers the robust double-conversion, online power protection needed for medical, light industrial, automation and mission critical IT applications. With zero transfer time to battery, continuous filtering of power, and an internal, automatic static bypass, the 9SX ensures performance and compatibility.

* Maintains system's host computer and operator's workstation power for ~8 minutes after loss of power
* Minimizes loss of data
* Provides clean constant voltage power
* Host computer and operator's workstation electronics unaffected by under voltage, brownouts, line sags, over voltage, transients, periodic emergency generator testing or automatic transfer switch operation
* Host computer and operator's workstation electronics protected from utility power factor capacitor switching spikes and ring waves
* Host computer and operator's workstation electronics protected from utility re-closer operations common during thunderstorms
* Regulates output voltage to meet and exceed system electronics requirements
* Allows time for an orderly system shutdown in the event of an extended power outage
* Reduces maintenance costs
* Helps increase system uptime
* Suitable for engine generator applications
* Suitable for mobile applications (other optional equipment may be needed)
* Installation of the UPS by GE
* 1-year warranty on parts and labor

Increased battery life
* Advanced battery management to extend battery life and provide advanced notice before batteries fail
* Batteries are hot-swappable

More control
* Automate power delivery by utilizing switchable, programmable outlets
* Programmable signal input through the RPO port also enables the UPS to change operating modes in reaction to external events

Advanced LCD interface
* Simplify UPS monitoring with Eaton's advanced LCD display
* Easy access to UPS alarm history, energy logs, unit serial numbers and firmware versions enable first time issue resolution right at the source
* Eight user-selectable languages ensure success for global deployments

Specifications
* Power: 700 VA / 630 W
* Input connection: 5-15P, eight feet long
* Output receptacles: (5) 5-15R
* Dimensions (H x W x D, in. / mm): 9.9 x 6.3 x 13.9 / 252 x 160 x 357
* Weight (lb. / kg): 26.5 / 11.5

General
* Topology: Double-conversion, online
* Configuration: Tower
* Color: Black and silver
* Diagnostics: Full system self-test at power up, ABM battery test every 30 days
* Warranty: 1 year on electronics and battery
* Remote power off: Remote On/Off (ROO) and Remote Power Off (RPO) rear terminal blocks
* Contents: UPS, Safety guide, Quick Start Guide, Reference Guide, RS-232 serial cable, USB cable

Electrical input
* Nominal voltage: 120V default (100/110/120/125V)
* Input voltage range:Full load: 100-138V, ?25% load: 60-144V
* Frequency: 50/60 Hz
* Frequency range: 60 Hz: 50-70 Hz, 50 Hz: 40-60 Hz
* Input power factor ?.99
* Input current distortion ?8%

Electrical output
* Power rating: 700VA / 630W
* Circuit breaker: None
* Nominal voltage: 120V default (100/110/120/125V)
* Output voltage regulation, steady state: ±2% nominal mode
* Output voltage THD (online): Linear: <3%
* Power factor: 0.9
* Efficiency (online mode with resistive load): 87%
* Transfer time: 0 ms

Communications
* User interface: Graphical display. UPS status in a single view.
* LEDs: 4 status-indicating LEDs
* Communication ports: RS-232 (RJ45) ports; USB port as standard (HID). 6-foot RS-232 and USB cables included

Environment & standards
* Operating temperature: 0 to 40 °C (32 to 104 °F) in Online mode, with linear derating for altitude
* Storage temperature: 0 to 35 °C (32 to 95 °F); without batteries: -25 to 55 °C (-13 to 131 °F)
* Relative humidity: 0 to 96% non-condensing
* Altitude operating temperature range: UP to 3,000 meters (9,843 ft) above sea level, no derating for 35 °C (95 °F) room temperature
* Audible noise: < 50 dBA at 1 meter typical
* RoHS compliance: Yes
* Safety conformance: UL 1778; IEC 62040-1
* EMC: FCC Part 15 Class B; IEC 62040-2 C1 & C2
* Markings: CE; cULus; NOM
* Battery backup time: 5.8 min@ 630 W, 14 min@ 300W

| Line | Qty | Catalog | |
|---|---|---|---|
| 33 | **1.00** | **W0301MR** | **TIP MR 1.5T Training Program** |

This training program is designed for customers purchasing a GEHC 1.5T MR system. GEHC will work with the designated Customer contact to agree upon a reasonable training schedule for a pre-defined group of core technologists that will leverage blended content delivery and may include a combination of onsite days and virtual offerings, to include TiP Virtual Assist, the GEHC Answerline and available on-demand courses ("Virtual Inclusions"). This blended curriculum with multiple delivery platforms promotes learner retention and allows for an efficient and effective skill development.

This program may contain:
• Onsite training (generally 12 days)

• Virtual Inclusions may include:
• Remote instructor-led training: Instructor leads a remote training session one-on-one or in a group, typically for 1 hour
• Answerline Support-Access to GEHC experts for clinical, non-emergency applications assistance via phone or by using the iLinq button on the imaging console
• Tip Virtual Assist-Direct interactive access to a GEHC expert for enhanced support.
• On Demand courses-On healthcare learning system. Self-paced courses and webinars (CE and non-CE).
Training will be delivered at a mutually agreed upon time between the customer and GE Healthcare (excluding GE Healthcare holidays and weekends), are subject to availability and generally will not exceed 15 days. This training program has a term of twelve (12) months commencing on Acceptance, where all onsite training must be scheduled and completed within twelve (12) months of Acceptance and all Virtual Inclusions also expire at the end of such twelve (12) month period. Additional onsite days may be available for purchase separately. All GEHC "Training" terms and conditions apply. Given the unique nature of this program, if this program is purchased as part of a purchase under a Governing Agreement, including any Master Purchase Agreement, Group Purchasing Organization Agreement, or Strategic Alliance Agreement, this program shall take precedence over any conflicting training deliverables set forth therein.

| Line | Qty | Catalog | |
|---|---|---|---|
| 34 | 1.00 | **M7132ST** | **MR 30.1 Software for SIGNA™ Artist** |

MR 30.1 for SIGNA™ delivers the foundational operating software, pulse sequence families, clinical applications toolkits, and visualization toolkits as well as acceleration and motion correction tools. MR 30.1 for SIGNA™ software features several new enhancements that improve Exam, Patient Setup and Scanning workflows.

MR 30.1 for SIGNA™ is the latest platform software to bring the highest performance to SIGNA™ MR. MR 30.1 introduces several base security, workflow and image quality enhancements, as well as enabling GE Healthcare's the latest innovations in Deep Learning Reconstruction*. Each scanner running MR 30.1 Platform will enjoy industry-leading cybersecurity features* by upgrade to Secure Scientific Linux (SLES 15), enabling the latest features for securing the scanner against bad actors and other threats for years to come. MR 30.1 software brings in additional workflow efficiency, including a new Window Width/Window Level feature that applies consistent levels across all images in the database; simplified setup for Automatic Phase Correction; an improved phase correction algorithm for LAVA FLEX* images and a Motion Compensation option when using Cardiac T1-Mapping applications such as FIESTA. The system will also now support a system preference to set the orientation of axial Breast images. Systems already equipped with HyperSense* will see the feature expanded to support SWAN and Contrast Enhanced MRA applications. The MR 30.1 for SIGNA™ software release brings AIR™ Recon DL* 3D, motion-insensitive PROPELLER and a host of additional applications such as DTI, FSE Flex, CartiGram, as well as phase sensitive MDE and MoCo MOLLI T1 mapping for cardiac imaging.

(* indicated applications may be purchasable options for certain regions and systems).

The latest enhancements include several key improvements to Exam, Patient Setup and Scanning workflows:

- Split Exam create/assign separate exam number for a sub-set of series
- AIR™ Recon smart algorithm for brain, MSK, body, cardiac, PROPELLER MB and FOCUS DWI imaging
- Whole-Body automated multi-station localizer and auto pasting
- Whole-Body automated multi-station FSE-IR, 3D SPGR and DWI imaging
- SnapShot SSFSE multi-slice per breath-hold imaging
- Cube flexibility for modifying/reducing scan time
- Dynamic phase correction for FSE imaging
- Uniformity optimization for large FOV body diffusion
- Flexible ZIP allows for flexible resolution by percentage to enhance the sharpness while decreasing the scan time

EXPRESS EXAM WORKFLOW

MR 30.1 for SIGNA™ workflow tools comprise the modality worklist, protocol libraries, workflow manager, auto-functions, inline viewing and inline processing. Together these tools are designed to help change the way you work by simplifying and accelerating the scanning process from set-up to acquisition to post-processing. With MR 30.1, workflow can begin before the patient enters the magnet room and exams can be completed with a few mouse clicks delivering quality and consistency for all patients and from all technologists. At the same time, MR 30.1 workflow maintains the flexibility needed to rapidly adapt and optimize exams for specific patient situations.

MR30.1 Workflow delivers new capabilities that speed set-ups for all exams and streamline scanning for multi-station and combination exams. With MR30.1 Workflow, scan set-up starts with Modality Worklist, an automated method to obtain patient, exam and protocol

information from a DICOM work-list server. For sites with full DICOM connectivity, once a patient has been selected from the Modality Worklist, the In-Room Operator Console will automatically highlight the relevant exam details. The Modality Worklist enables complete control of the MR protocol prescription, but also reduces work by allowing the MR protocol to be selected and linked to the patient record in advance of the patient's arrival.

Protocol Tools enable exam automation while also giving the user complete control of protocols for prescription, saving, searching, and sharing. Protocols are organized in two libraries: GE Optimized (preloaded protocols) and Site Authored (customized and saved). Protocols can be saved based on patient demographics, anatomy, scan type, or identification number for rapid search and selection. Commonly used protocols can be flagged as favorites for quick selection from the Modality Worklist.

In addition to pre-programmed protocols, ProtoCopy enables a complete exam protocol to be shared with the click of a mouse. GE protocols provided with the system include Protocol Notes designed to guide the user through the procedure. For special applications, Protocol Notes also include video guides with step-by-step video-based demonstration and instruction. Protocol Notes can be edited by the user to reflect protocol modifications to aid communication among users.

With the patient positioned, IntelliTouch and AIR Touch™ together simplify coil selection to one touch and one click. AIR Touch™ automatically determines coil element locations based on the IntelliTouch landmark and intelligently generates the coil configuration with elements activated to optimize image quality for coverage, uniformity, and parallel imaging acceleration factor.

At the console, the MR 30.1 WorkFlow Manager implements the selected protocol. The Workflow Manager controls location prescription, acquisition, processing, visualization, and networking, and can fully automate these steps, if requested by the user. Once the target anatomy has been prescribed, the Linking feature can be used to translate appropriate parameters to all subsequent series that have been linked, eliminating the need for further action by the user.

When selected, AutoStart will automatically initiate the localizer, coil selection, series-to-series scanning, multi-station scanning, prescription of scan plans for brain exams, as well as delivered instructions to the patient.

- Pause and Resume allows the user to pause a scan in progress (even in automated mode), to respond to a patient need, and then resume mid-scan without starting the scan over.
- For breath-hold scanning, Auto Protocol Optimization provides automated alternative choices for spatial resolution and breath-hold time based on the original protocol. Technologists are liberated from troublesome scan time and image quality adjustments by selecting from pre-calculated options determined by the system.
- Whole Body Localizer automates the acquisition and pasting of multi-station scans for planning, and Whole-Body Imaging enables automated multi-station scanning with FSE-IR, 3D SPGR and DWI diffusion contrasts.
- Once scanning and processing are complete, Split Exam provides the capability to extract a subset of series from multi-station and combination exams to create/assign a separate exam number for accession numbers in billing and PACS systems.

Inline Processing automatically completes post-processing steps for the user after the images have been reconstructed and saved into the database. For certain tasks, such as vascular segmentation, the user must accept the results, or complete additional steps prior to saving the images to the database. These automated processing steps can be saved to the (scan) protocol to ensure consistent output and workflow:

- Diffusion weighted series: automatic compute and save
- Diffusion tensor series: automatic compute and save
- eDWI: automatic compute and save
- Image filtering: automatic compute and save
- Maximum/Minimum Intensity Projection: automatic compute and save
- Pasting: automatic compute and save
- Reformat to orthogonal plane: automatic compute and save
- T2 map for cartilage: automatic compute and save
- 3D Volume Viewer: automatic load
- Image Fusion: automatic load
- Interactive Vascular Imaging: automatic load
- FiberTrak: automatic load
- Spectroscopy: automatic load

MR 30.1 for SIGNA™ TECHNOLOGIES

The acceleration, motion correction and tissue suppression technologies in MR 30.1 for SIGNA™ are designed to address overall workflow, rescans and scan time as well as the impact of challenging patients, challenging anatomy and challenging physiology.

Acceleration Technology

MR 30.1 for SIGNA™ delivers a suite of acceleration techniques designed to help address acquisition time.

- Smart Algorithm AIR™ Recon uses a smart reconstruction algorithm to address background noise and artifacts enabling enhanced image quality without the need for longer scan times and is compatible with critical imaging sequences including PROPELLER MB, 3D Cube, and FSE.
- ARC parallel imaging reduces scan time by using an adaptive auto-calibrating (data-driven) technique to selectively acquire data. As a result, ARC enables smaller FOV prescription with less sensitivity to motion and coil calibration artifacts.
- ASSET parallel imaging reduces scan time using an array spatial sensitivity (image driven) technique. ASSET takes advantage of the data produced by the multiple coil elements to reduce the total data needed to create an image.
- Flexible No Phase Wrap reduces scan time by reducing the number of increments acquired to address wrap-around based on a flexible user-selectable factor.
- Fraction NEX reduces scan time by reducing the number of data averages.

Motion Correction Technology

Enable free-breathing body exams and address the effects of motion with patient-adaptive technologies that proactively detect and correct for motion without hardware dependencies or the need for user intervention.

- Auto Body Navigators deliver real-time, respiratory motion compensated imaging for a broad range of sequences, including T1w dynamic contrast-enhanced imaging. Auto Body Navigators use a software-based tracking pulse that is automatically placed for the user and allows on-the-fly adjustment to adapt to challenging patient circumstances, again without the need for hardware.
- PROPELLER MB combines radial acquisition and motion correction post-processing to mitigate the effects of motion without the need to position the patient over a sensor. PROPELLER MB can be used to generate T1, T2, PD, T1 FLAIR, and T2 FLAIR contrasts and is compatible with Auto Body Navigators to enable usage for a broad range of exams. With MR 30.1 for SIGNA™, PROPELLER MB motion correction benefits from AIR™ Recon smart algorithm image quality.

Tissue Suppression Technology

Modify the contribution of fat or water signal with multiple tissue suppression techniques.

- FatSat uses a frequency selective pulse to target and suppress the signal from fat
- WaterSat frequency selective water suppression
- STIR inversion pulse fat or water suppression
- SPECIAL frequency selective fat suppression
- ASPIR spectrally selective fat suppression
- Flex 2-point Dixon techniques to separate fat and water signals

MR 30.1 for SIGNA™ CLINICAL APPLICATIONS

MR 30.1 for SIGNA™ clinical imaging tools are organized and optimized to address six clinical work areas: NeuroWorks, OrthoWorks, BodyWorks, OncoWorks, CVWorks and PaedWorks. Each clinical toolkit comprises pre-programmed protocols, clinical applications and visualization tools designed for the challenges of each imaging area. The resulting capability starts with simplified prescription and protocol set-up. Imaging capability extends to patient management and clinical workflow enhancements. Post-processing capability augments the portfolio with specialized tools designed to speed the review and processing tasks typically performed.

NeuroWorks Toolkit

- READYBrain auto-align for automated brain exam prescription
- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- PROPELLER DW Duo FSE-based diffusion with susceptibility reduction
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or white matter nulling
- 3D COSMIC modified steady state imaging

- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- 3D FIESTA and 3D FIESTA-C fast steady state imaging
- PSIR – Phase Sensitive Inversion Recovery
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing which include time series, DWI/ADC maps, DTI, variable echo, BOLD, and spectroscopy (SV, 2D, 3D)

OrthoWorks Toolkit

- FSE and frFSE fast spin echo imaging suites with dynamic phase correction
- High Bandwidth distortion reduction for FSE
- FatSat, STIR, SPECIAL, ASPIR, Spectral Spatial fat-suppression tools
- MARS High Bandwidth distortion reduction for FSE
- PROPELLER MB motion robust radial FSE with T1, PD, T2 and Fat Suppression (STIR and ASPIR)
- 3D Cube 2.0 FSE-based imaging with T1, T2, and STIR
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- MENSA NERVE for optimized nerve contrast
- READYView post-processing

BodyWorks Toolkit

- Auto Navigators diaphragm tracker for free-breathing scanning
- PROPELLER MB motion robust radial FSE with T1 and Fat Suppression (STIR and ASPIR)
- 3D Cube FSE-based imaging with T1, T2, and STIR
- 3D Dual Echo gradient echo in/out phase imaging
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- 3D MRCP frFSE imaging
- 2D Fat Sat FIESTA fast steady state imaging
- Enhanced SSFSE Snapshot multi-slice imaging
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring

OncoWorks Toolkit

- Auto Navigators diaphragm tracker for free-breathing scanning
- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- PROPELLER DW Duo FSE-based diffusion imaging with susceptibility reduction
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or while matter nulling
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- Enhanced SSFSE Snapshot multi-slice imaging
- Whole-Body multi-station localizer and pasting
- Whole-Body multi-station FSE-IR, 3D SPGR and DWI imaging
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- Multiphase DynaPlan
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- READYView, BrainView and BodyView post-processing

CVWorks Toolkit

- Auto Navigators diaphragm tracker for free-breathing scanning
- iDrive for free breathing cardiac planning
- 2D FIESTA Cine gated steady-state, multi-phase imaging
- 3D FS FIESTA steady-state imaging with Fat Sat
- 2D/3D Time-Of-Flight & 2D Gated Time-of-Flight
- 2D/3D Phase Contrast & Phase Contrast Cine
- SmartPrep automated bolus detection
- Fluoro Trigger real-time bolus monitoring
- 3D QuickStep automated multi-station imaging
- READYView post-processing

PaedWorks Toolkit

- PROPELLER MB motion robust radial-FSE with T1, PD, T2, T2 FLAIR, T1 FLAIR with STIR and ASPIR
- 3D Cube 2.0 FSE-based imaging with T1, T2, T1 FLAIR, T2 FLAIR and STIR
- 3D Cube Dual Inversion Recovery for gray or while matter nulling
- 3D COSMIC modified steady state imaging
- 2D/3D MERGE T2* multi-echo fast gradient echo imaging
- 3D BRAVO IR prepared fast SPGR imaging with concentric k-space filling
- 3D MP-RAGE IR prepared fast SPGR imaging with sequential k-space filling
- 3D FIESTA and 3D FIESTA-C fast steady state imaging
- Auto Navigators diaphragm tracker free-breathing scanning
- 3D LAVA and Turbo LAVA with Turbo ARC and SPECIAL for dynamic or single-phase imaging (breath-hold or free-breathing)
- 3D LAVA GRE 2-point Dixon fat-water separation for dynamic or single-phase imaging (breath-hold or free-breathing)
- Enhanced SSFSE Snapshot multi-slice imaging
- BrainStat GVF and AIF parametric maps
- READYView and BrainView post-processing

READYView Advanced Visualization

READYView is an MR 30.1 advanced visualization tool designed to simplify the quantitative analyses of multiple data sets. READYView automatically selects the most relevant post-processing protocol for the user and provides guided workflow and general assistance for the processing algorithms. In addition, the user can customize workflows with adjustable layouts, personalized parameter settings and custom review steps. Key capabilities of READYView include the ability to analyze, export and save:

- Time series
- Diffusion weighted series
- Diffusion tensor series
- Variable echo series
- Blood oxygen level dependent (BOLD) series fMRI processing
- Spectroscopy data (single voxel and 2D or 3D CSI)
- MR Touch (MR elastography) series

| Line | Qty | Catalog | |
|---|---|---|---|
| 35 | **1.00** | **M71014ED** | **SIGNA_LX1.MR30.1 eDelivery item - Artist** |

Software eDelivery is used to associate the MRI scanner with GE HealthCare's remote software delivery infrastructure. No items are being delivered physically or electronically. (For tracking purpose only – non purchasable catalog)

| Line | Qty | Catalog | |
|---|---|---|---|
| 36 | **1.00** | **M7012SA** | **Sonic DL™ Cardiac Cine** |

Sonic DL™ is a Deep Learning based parallel imaging technique that can accelerate the scans with significantly higher acceleration factors. Sonic DL™ uses a neural network to reconstruct images from under-sampled acquisitions. The network is trained to handle significantly higher acceleration factors.

Sonic DL™ Cine adds a new imaging option and an updated acceleration tab. This product is currently compatible only with the 2D FIESTA

CINE application. Sonic DL™ Cine provides up to 12-fold acceleration, during breath-hold or free-breathing.
The higher acceleration factors allow acquisition of the CINE data within a single heart beat (1RR) per slice, with clinically acceptable IQ and temporal resolution. The 1RR acquisition can also be acquired with Respiratory triggering.

NOTE: Sonic DL™ requires GEN 7 DL ICN and MR30.1 base software, and Sonic DL™ license also requires AIR™ Recon DL 2D license.

| Line | Qty | Catalog | |
|---|---|---|---|
| 37 | **1.00** | **M7013SA** | **AIR™ Recon DL EPI Diffusion** |

The AIR™ Recon EPI Diffusion option enables users to use AIR™ Recon DL for Echo Planar Imaging sequences, including DTI and other diffusion sequences.

| Line | Qty | Catalog | |
|---|---|---|---|
| 38 | **1.00** | **S7530UP** | **2D AIR™ Recon DL PROPELLER and DW-EPI** |

AIR™ Recon DL is a pioneering, deep-learning based reconstruction algorithm applied to the raw scan data to improve SNR and image sharpness. This propriety technique improves image quality at the foundational level by removing image noise and ringing artifacts while enabling shorter scan times. With AIR™ Recon DL, customers will be able to:

- Remove noise in the images through trained deep learning algorithms
- Increase productivity by enabling shorter scan times
- Eliminate Gibbs and truncation artifacts with intelligent ringing suppression
- Experience sharper, clearer and accurate MR images
- Apply a tailored level of AIR™ Recon DL based on preference
- Visualize AIR™ Recon DL images directly at the MR console without reconstruction delays

2D AIR™ Recon DL PROPELLER is compatible with 2D radial motion-insensitive PROPELLER sequence which includes PROPELLER DWI.

| Line | Qty | Catalog | |
|---|---|---|---|
| 39 | **1.00** | **M7010SA** | **3D AIR™ Recon DL** |

AIR™ Recon DL is a pioneering, deep-learning based reconstruction algorithm applied to the raw scan data to improve SNR and image sharpness. This propriety technique improves image quality at the foundational level by removing image noise and ringing artifacts while enabling shorter scan times. With AIR™ Recon DL, customers will be able to:

- Remove noise in the images through trained deep learning algorithms
- Increase productivity by enabling shorter scan times
- Eliminate Gibbs and truncation artifacts with intelligent ringing suppression
- Experience sharper, clearer and accurate MR images
- Apply a tailored level of AIR™ Recon DL based on preference
- Visualize AIR™ Recon DL images directly at the MR console without reconstruction delays

AIR™ Recon DL 3D is compatible with most 3D sequences including Fast Spin Echo, Gradient Echo and Fast Gradient Echo family of sequences.

| Line | Qty | Catalog | |
|---|---|---|---|
| 40 | **1.00** | **M7000EZ** | **Flow Analysis 4.0** |

Flow Analysis automates the review and analysis of gated phase contrast magnetic resonance (MR) images and generates a report for the referring physician. This version is available on the host computer.

Flow Analysis has an automated edge detection algorithm that propagates through all the phases of the cine phase contrast series.

The flow analysis measurement tab displays a summary chart of peak velocities in addition to individual velocity results from each phase of the cardiac cycle. A background correction may also be applied which is particularly suited to slow flowing fluid such as cerebrospinal fluid.

Customizable Macros are a feature of Flow Analysis 4.0. These Marcos allow the user to quickly write a report specific to the patient being assessed with simple mouse clicks. The macros are customizable to reflect the language used by the reporting physician.

Flow Analysis offers the capability to archive reports or cine images as seen in a DICOM format so they may be viewed on any DICOM viewer.

| Line | Qty | Catalog | |
|---|---|---|---|
| 41 | **1.00** | **M7006LE** | **1.5T 16-ch Small Flex Extremity Coil** |

The high density 16-channel receive coil is designed to give high quality images in a wide range of applications. The high degree of Flexibility was achieved by removing all non-essential electronics to an external interface assembly, ensuring reduced weight on the patient and better conformance to the anatomy. The high degree of Flexibility is particularly advantageous when imaging patients that do not fit the constraints of rigid coils, improving patient and technologist experience, and enabling most exams to be completed with the same level of image quality expected from dedicated rigid coils. This coil covers a broad range of muscular skeletal applications, including hand, wrist, elbow, shoulder, small knee, small ankle, and small foot. In addition, the coil's versatility has been shown in a range of general purpose applications that include small neck, small and spine exams.
Requires Interface Module (sold separately).

| Line | Qty | Catalog | |
|---|---|---|---|
| 42 | **1.00** | **M7006YD** | **1.5T AIR™ Multi-Purpose Coil Medium with Positioners** |

A package includes 1.5T AIR™ Multi-Purpose (MP) Coil Medium with a coil positioner kit.

The 20-channel 1.5T AIR Multi-purpose (MP) Medium is the next generation multipurpose coil that allow flexibility in any direction to conform to the patient's anatomy. Based on the innovative AIR™ Coil technologies, the 1.5T AIR MP Medium provides good image quality and acceleration performance, while improving the overall patient and user experience. The coil has been designed to adapt various patient shapes and sizes, expanding positioning versatility. AIR™ MP Coil Medium is recommended to be used for Wrist, Elbow, Cardiac.

The AIR™ MP Coil positioner kit includes a knee positioner, a foot-ankle positioner, a wedge pad, a u-shaped pad and a strap kit. Those are compatible with both AIR™ MP Coils Large and Medium for positioning.

| Line | Qty | Catalog | |
|---|---|---|---|
| 43 | **1.00** | **W0501ALL** | **Elevate Clinical Education – 24 credits** |

Ongoing clinical education credits are designed to provide flexible training options to be used in promoting learner retention, supporting employee turnover needs and allows for efficient and effective skill development. Credits may be used for clinical education on GEHC diagnostic imaging products located at Customer's facilities. Unused credits at the end of this agreement are forfeited without refund or credit.
This program may contain:
- Clinical Training credits – up to 24 credits per year
- Answerline Support-Access to GEHC experts for clinical, non-emergency applications assistance via phone or by using the iLinq button on the imaging console
- Tip Virtual Assist-Direct interactive access to a GEHC expert for enhanced support.
- On Demand courses-On healthcare learning system. Self-paced courses and webinars (CE and non-CE).

Credits may be used for trainings conducted at Customer's facility, via remote training sessions, and at GE Healthcare's Healthcare Institute as follows:
- On-site training at Customer's facility = 8 credits per day (limited to 1 GE Healthcare trainer per visit)
- Remote training session = 1 credit per session
- Training at GE Healthcare's Healthcare Institute = 16 credits per training class seat

*Credits are valid for 12 months commencing on Acceptance. Unused Credits at the end of a contract year cannot be rolled over to the next contract year and are forfeited without refund or credit. Unused Credits at the end of this Agreement are forfeited without refund or credit. Additional credits may be available for purchase separately.
*If purchased in conjunction with Launch offering, the Elevate offering start date will begin at the end of the Launch offering.

***Total Quote Subtotal:*** ***$1,717,395.93***

| Qty | Credits and Adjustments | |
|---|---|---|
| **1** | **1.5T SIGNA HDx UPG from LX Trade-in** | **$-50,000.00** |

***Total Quote Net Selling Price:*** ***$1,667,395.93***

# Optional Items

Please initial the Catalogs you wish to purchase

| Catalog Number | Qty | Description | Net Price | Initial |
|---|---|---|---|---|
| E88221XA | 1.00 | **Medrad MRXperion injector on pedestal mount** | **$51,316.80** | ------ |

The Medrad® MRXperion™ MR Injection System is a smart performer in the MR suite, delivering contrast fluid and data management.

Streamlined Injection Workflow
- Less time preparing for the injection and more
- time to focus on the patient and optimize
- procedure management.

Convenience at Point of Care
- On-board eGFR and Weight Based Dosing
- Calculators, an Injection Pressure Graph,
- Independent Test Inject and KVO functions.

Real-time Support
- Connect to VirtualCare® Remote Support* for
- advanced injector system diagnostics, seamless

Improved Efficiencies
- Snap-on/Twist-off Syringe Design
- Auto plunger advance and retract when attaching and detaching syringes
- Automatic filling and priming
- Injection/post-injection reminders
- Injection pressure graph

Reproducible Quality
- Proven track record of design and performance
- On-site field service and VirtualCare® Remote Support* for advanced injection system diagnostics and real-time support

Personalized Care
- Patient-Centric workflow design
- Protocol storage/retrieval
- On-board eGFR and Weight Based Dosing Calculators
- Injection enabled when head is tilted down

The MRXperion™ Injector package includes:
- Dual injector head on pedestal with integral double hook IV pole
- Scan room unit power supply with 40 ft. (12 m) DC cable
- Scan room fiber optic cable – 40 ft. (12 m)
- Control room fiber optic cable - 150 ft. (45 m)
- Fiber optic quick disconnect panel
- Fiber optic penetration panel kit
- Control room unit (display and pod) with hand-switch
- Display and pod power supplies
- CAT5 cable (display to pod) - 1 ft. (0.3m)
- CAT5 cable (pod to hospital network) - 25 ft. (7.6m)

- Power cords - North America and Japan (3 each), 10 ft. (3 m)
- Power cords – International (3 each), 10 ft. (3 m)
- Operators manual (English)
- Multi-lingual Operators manual CD
- Quick guides (English) for injector and hanger
- Installation manual (English)
- Service manual and schematics manual CDs (English)
- Warranty packet
- Installation, customer's operational training at time of installation, and one year full on-site warranty in Bayer service countries
- LAN port for VirtualCare Remote Service

An optional penetration panel filter kit E88221XC is intended to be used for an alternate installation of the power supply of the MEDRAD® MRXperion™ Injection System outside of a MR scan room.

System Specifications
System Capabilities
- Syringe Capacities:
- Syringe A: 65ml
- Syringe B: 115ml
- Programmable volume range (ml):
- Syringe A: 0.5 ml to max syringe volume in 0.1 ml increments from 0.5 ml to 31 ml, 1ml increments above 31 ml
- Syringe B: 1 ml to max syringe volume in 1 ml increments
- Programmable flow rate range (ml/sec)
- 0.01 to 10 ml/s in 0.01 ml/s increments between 0.01 and 3.1 ml/s
- 0.1 ml/s increments between 3.1 and 10 ml/s
- KVO (Keep Vein Open): 6 factory presets of 0.25 ml every 15, 20, 30, 45, 60 or 75 sec
- Test Inject: configurable from 0.5 ml to 20 ml in 0.1 ml increments
- Pressure range (psi): 6 factory presets from 100 to 325 PSI (690 to 2240 kPa)
- Injection / Post Injection Reminders: up to 5 settings of 1 sec to 20 minutes in 1 sec increments
- Injection protocol storage: 60 protocols up to 6 phases each
- Injection Hold / Pause: up to 20 minutes in 1 sec increments
- eGFR Calculator
- For adults: MDRD, Cockroft-Gault, Modified Cockroft-Gault and CKD-EPI methods
- For children: Bedside Schwartz method
- Weight Based Dosing Calculator: user Configurable
- Remote Service Capability: with optional VirtualCare Remote Support

Dimensions and Weight
Control Room Unit
- 15.58" (39.58 cm) W
- 12.71" (32.28 cm) H
- 10.23" (25.98 cm) D
- 17.6 lbs (8.0 kg)

Scan Room Unit
- 23.30" (59.0 cm) W
- 71.40" (181.0 cm) H
- 23.30" (59.0 cm) D
- 95.7 lbs (43.4 kg)

Power Supply
- 7.60" (19.0 cm) W
- 3.40" (9.0 cm) H

- 15.40" (39.0 cm) D
- 5 lbs (2.3 kg)

Electrical
- Voltage Requirements
- 100-240 VAC
- 50/60 Hz
- 120VA - 210VA

| Catalog Number | Qty | Description | Net Price | Initial |
|---|---|---|---|---|
| E88221XC | 1.00 | **Penetration Panel for MEDRAD MRXperion injector** | $2,160.00 | |

The penetration panel filter kit is intended to be used for an alternate installation of the power supply of the MEDRAD® MRXperion™ Injection System outside of a MR scan room.
Penetration panel filter kit option includes:
- Filter assembly
- Mounting/centering ring
- Mounting screws
- Conductive O-ring (pre-installed on the filter)
- Power supply cable - 10 ft. (3 m)
- Installation instructions

**Trade-in Addendum to GE HealthCare Quotation**

This Trade-In Addendum ("Addendum"), effective on September 22, 2023, between the GE HealthCare business identified on the Quotation and **UNC Health Care System On Behalf of Nash General Hospital** ("Customer"), is made a part of Quotation # **2001758212.23 ^** dated September 22, 2023 ("Quotation") and modifies it as follows:

A. Customer: (i) certifies that it has full legal title to the equipment and/or mobile vehicle ("mobile vehicles" are defined as any systems requiring a vehicle title) listed in Section E ("Trade-In Equipment"), free and clear of all liens and encumbrances; (ii) conveys title and, if applicable, registration and license documents to GE HealthCare effective on the date of removal or receipt of the Trade-In Equipment (mobile vehicles will not be removed from Customer site until GE HealthCare has received a clean title signed over to GE HealthCare); and (iii) affirms that the Trade-In Equipment has never been used on or to provide care to animals. If GE HealthCare removes the Trade-In Equipment, it will do so at its expense at a mutually agreed time. Trade-In Equipment shall be removed no later than thirty days following installation of Customer's new system, unless explicitly otherwise agreed to by the parties in writing.

Mobile vehicles must include the VIN# on this trade-in addendum: VIN# [insert Vin #]. Mobile vehicles must have a valid DOT sticker and be road worthy at the time GE HealthCare is to take possession of them in order for GE HealthCare to accept a mobile vehicle on trade-in. Any and all logos or hospital affiliation stickers must be removed (outside and inside) by Customer and Customer shall clean the mobile vehicle of all debris and medical supplies prior to removal of the mobile vehicle by GE HealthCare.

B. Customer is responsible for: (i) providing timely, unrestricted access to the Trade-In Equipment in a manner that affords GE HealthCare, or third-party purchaser of the Equipment through GE HealthCare, the ability to complete Equipment inspection and testing, and the ability to complete an operating system back-up prior to de-installation within the timeframe required by GE HealthCare or said third-party purchaser, failure of which to provide may result in termination of this Trade-in Addendum and related credits and/or payments; (ii) ensuring that the Trade-In Equipment and the site where it is located are clean and free of bodily fluids; (iii) informing GE HealthCare of site-related safety risks; (iv) properly managing, transporting and disposing of hazardous materials located on site in accordance with applicable legal requirements; (v) rigging, construction, demolition or facility reconditioning expenses, unless expressly stated otherwise in the Quotation; (vi) risk of loss and damage to the Trade-In Equipment until safety risks are remediated and the Trade-In Equipment is removed or returned; and (vii) for Trade-In Equipment that utilizes helium, ensuring sufficient helium for appropriate ramp down of the Trade-In Equipment.

C. Prior to removal or return to GE HealthCare, Customer must: (i) remove all Protected Health Information as such term is defined in 45 C.F.R. § 160.103 ("PHI") from the Trade-In Equipment; and (ii) indemnify GE HealthCare for any loss resulting from PHI not removed. GE HealthCare has no obligation in connection with PHI not properly removed.

D. GE HealthCare may in its sole discretion reduce the trade-in amount or decline to purchase the Trade-In Equipment and adjust the total purchase price of the Quotation accordingly if: (i) the terms of this Addendum are not met; (ii) Customer fails to provide access to the Trade-In Equipment as required herein; or (ii) the Trade-In Equipment is missing components or is inoperable and/or non-functioning when removed or returned, which includes situations where helium levels at ramp down are insufficient and cause the Trade-In Equipment to quench – Customer is required to confirm for GE HealthCare the operability of the Trade-In Equipment prior to the deinstallation of the Equipment; or (iii) as a result of Customer's actions, deinstallation of the Trade-In Equipment does not occur within one year of the execution of this Trade-In Addendum or related Quotation. All other terms and conditions of the Quotation remain in full force and effect.

E. Trade-In Equipment:

| Trade-In Equipment Mfr | Model & Description | Quantity | System ID | Trade-In Amount ($) |
|---|---|---|---|---|
| | 1.5T SIGNA HDx UPG from LX Trade-in | 1.00 | 252443NDMR2 | $-50,000.00 |

This Addendum is executed when: (i) signed by the parties below; (ii) Customer receives this Addendum and signs the Quotation that references the Trade-In Equipment; or (iii) Customer receives this Addendum and issues a purchase order identifying either the terms of the Trade-In Equipment Quotation (which includes a reference to the Trade-In Equipment) or the Governing Agreement identified on the Quotation as governing the order (PO# _____)†.

| | |
|---|---|
| **UNC Health Care System On Behalf of Nash General Hospital** | **GE HealthCare** |
| **Signature:** _____ | **Signature:** _____ |
| **Print Name:** _____ | **Print Name:** _____ |
| **Title:** _____ | **Title:** _____ |
| **Date:** _____ | **Date:** _____ |

^ A Quotation number must be provided on this document.

* In the event the Trade-In Equipment does not have a System ID, please record the serial number of each component that comprises the Trade-In Equipment.

† If you are relying upon the purchase order to reflect acceptance of the terms contained herein, please update this document with the applicable PO number upon receipt of the PO. Failure to do so may result in delays surrounding deinstallation of the System(s).

& The Trade-In Amount is based on expected trade-in within one (1) year of execution of this Trade-In Addendum. If the Trade-In does not occur within such year, GE HealthCare may adjust the Trade-In Amount or decline to purchase the Trade-In Equipment as set forth in Section (D) herein.

GE HealthCare

September 22, 2023
Quote Number: **2001758212.23**
Customer ID: **1-23I1EF**
Quotation Expiration Date: **09/29/2023**

# GPO Agreement Reference Information

| | |
|---|---|
| Customer: | UNC Health Care System On Behalf of Nash General Hospital |
| Contract Number: | University of North Carolina Health Care System MPA-11008 |
| Billing Terms: | 10% down / 70% delivery / 20% install |
| Payment Terms: | Due On Receipt-30 Days |
| Shipping Terms | FOB Destination |

Offer subject to the Terms and Conditions of the applicable Group Purchasing Agreements currently in effect between GE HealthCare and University of North Carolina Health Care System MPA-11008

If applicable, for more information on this devices' operating system, please visit GE HealthCare's product security portal at: https://securityupdate.gehealthcare.com/en/products

**1. Definitions.** As identified in this Agreement, "Equipment" is hardware and embedded software that is licensed with the purchase of the hardware delivered to Customer in GE HealthCare's packaging and with its labeling; "Software" is software developed by GE HealthCare and/or delivered to Customer in GE HealthCare's packaging and with its labeling, and Documentation associated with the software; "Third Party Software" and "Third Party Equipment" are respectively software developed by a third party, and hardware and embedded software that is licensed with the purchase of the hardware, that is delivered to Customer in the third party's packaging and with its labeling (collectively, "Third Party Product"); "Product" is Equipment, Software and Third Party Product; "Services" are Product support or professional services; "Subscription" is a limited-term, non-transferable license to access and use a Product (except Healthcare Digital Products), including any associated support Services; "Healthcare Digital Products" are: (i) Software identified in the Quotation as "Centricity"; (ii) Third Party Software licensed for use in connection with Centricity Software; (iii) hardware used to operate Centricity or Third Party Software; (iv) Services provided for implementation, installation or support and maintenance of Centricity or Third Party Software licensed for use in connection with Centricity Software; and/or (v) any Product or Service that is identified in a Healthcare Digital Quotation. "Specifications" are GE HealthCare's written specifications and manuals as of the date the Equipment shipped; and "Documentation" is the online help functions, user instructions and manuals regarding the installation and operation of the Product as made available by GE HealthCare to Customer.

**2. Term and Termination.** Software licenses, Services and/or Subscriptions will have individual term lengths identified in the Quotation. If there is a material breach of this Agreement and/or the Quotation that is not cured by the breaching party within 60 days from receipt of written notice, the non-breaching party can terminate the respective Agreement or Quotation. Other than as set forth in this Agreement, neither party can unilaterally terminate this Agreement or a Quotation. Any remaining undisputed, unpaid fees become immediately due and payable on expiration or termination. Expiration or termination of this Agreement will have no effect on Quotations executed prior to the date of expiration or termination.

**3. Software License**. Other than as identified in a Quotation, GE HealthCare grants Customer a non-exclusive, non-transferable, non-sublicensable, perpetual license to use the Software for Customer's internal business purposes only in the United States consistent with the terms of this Agreement. Customer's independent contractors (except GE HealthCare competitors) may use the Software, but Customer is responsible for their compliance with this license, and additional license fees may apply. Customer cannot modify, reverse engineer, copy or create derivative works of the Software, except for making 1 backup copy, and cannot remove or modify labels or notices of proprietary rights of the Software or Documentation. If GE HealthCare provides Third Party Software, Customer will comply with third party license terms, and licensors are third-party beneficiaries of this Agreement.

**4. Commercial Logistics**

4.1 Order Cancellation and Modifications.

4.1.1 Cancellation. If Customer cancels an order prior to shipment without GE HealthCare's written consent, Customer will be responsible for all third-party expenses incurred by GE HealthCare prior to Customer's order cancellation and GE HealthCare may charge: (i) a fee of up to 10% of the Product price; and (ii) a fee for site evaluations performed prior to cancellation. GE HealthCare will retain, as a credit, payments received up to the amount of the cancellation charge. Customer must pay applicable progress payments (other than final payment) prior to final calibration, and GE HealthCare may delay calibration until those payments are received. If Customer does not schedule a delivery date within 6 months after order entry, GE HealthCare may cancel on written notice. This Section does not apply to Software or Subscriptions, Third Party Products and/or related professional or installation services; those orders are non-cancellable.

4.1.2 Used Equipment. Equipment identified as pre-owned, refurbished, remanufactured or demonstration Equipment is not new and may have received reconditioning to meet Specifications ("Used Equipment"). Sale of Used Equipment is subject to availability. If it is no longer available, GE HealthCare will attempt to identify other Used Equipment in its inventory that meets Customer's needs, and if substitute Used Equipment is not acceptable, GE HealthCare will cancel the order and refund any deposit Customer paid for the Used Equipment.

4.2 Site Preparation. Customer is responsible for network and site preparation, including costs, in compliance with GE HealthCare's written requirements and applicable laws. GE HealthCare may refuse to deliver or install if the site has not been properly prepared or there are other impediments.

4.3 Transportation, Title and Risk of Loss. Unless otherwise identified in the Quotation, shipping terms are FOB Destination. Title and risk

of loss to Equipment and Third-Party Equipment passes to Customer on delivery to Customer's designated delivery location.

4.4 Delivery, Returns and Installation. Delivery dates are approximate. Products may be delivered in installments. GE HealthCare may invoice multiple installment deliveries on a consolidated basis, but this does not release Customer's obligation to pay for each installment delivery. Delivery occurs: (i) for Product, on electronic or physical delivery to Customer; and (ii) for Services, on performance.

Products cannot be returned for refund or credit if they match the Quotation.

Delivery and installations will be performed from 8am to 5pm local time, Monday-Friday, excluding GE HealthCare holidays, and outside those hours for an additional fee. Customer will: (i) install cable and assemble products not provided by GE HealthCare; (ii) enable connectivity and interoperability with products not provided by GE HealthCare; (iii) pay for construction and rigging costs; and (iv) obtain all licenses, permits and approvals for installation, use and disposal of Products. For upgrades and revisions to non-Healthcare Digital Products, Customer must return replaced components to GE HealthCare at no charge.

4.5 Information Technology Professional Services ("ITPS"). ITPS must be completed within 12 months of the later of the ITPS order date or Product delivery. If not done within this time period, other than because of GE HealthCare's failure to perform, ITPS performance obligations expire without refund. ITPS includes project management, HL7/HIS system integration, database conversion, network design and integration and separately cataloged software installations. This Section does not apply to Healthcare Digital Products.

4.6 Acceptance.

4.6.1 Equipment Acceptance. Beginning on completion of installation (not to exceed 30 days from shipment) or delivery (if installation is not required), Customer will have 5 days to determine if the Equipment operates substantially in accordance with Specifications ("Equipment Test Period"). If the Equipment fails to perform accordingly, Customer will provide to GE HealthCare: (i) written notice; (ii) access to the Equipment; and (iii) a reasonable time to bring the Equipment into compliance. After correction by GE HealthCare, Customer will have the remainder of the Equipment Test Period or 3 days, whichever is greater, to continue testing. Equipment is accepted on the earlier of expiration of the Equipment Test Period or the date the Equipment is first used for non-acceptance testing purposes.

4.6.2 Software Acceptance. Beginning on completion of Software implementation, Customer will have 30 days to determine if the Software operates substantially in accordance with the Documentation ("Software Test Period"). If the Software fails to perform accordingly, Customer will provide to GE HealthCare: (i) written notice; (ii) access to the Software; and (iii) a reasonable time to bring the Software into compliance. After correction by GE HealthCare, Customer will have the remainder of the Software Test Period or 5 days, whichever is greater, to continue testing. Software is accepted on the first to occur of: (a) expiration of the Software Test Period; (b) the date Software is first used to process actual data; or (c) the "Go-Live Date" as defined in the Quotation.

4.6.3 Third Party Product Acceptance. Third Party Products are accepted 5 days after delivery.

4.6.4 Subscription Acceptance. Products provided pursuant to a Subscription are accepted 5 days after GE HealthCare provides Customer access to the Products.

4.7 Third Party Products and Services. If GE HealthCare provides Third Party Products and/or Services, then (i) GE HealthCare is acquiring them on Customer's behalf as its agent and not as a supplier; (ii) GE HealthCare provides no warranties or indemnification, express or implied; and (iii) Customer is responsible for all claims resulting from or related to their acquisition or use.

4.8 Mobile Equipment. GE HealthCare will assemble Equipment it has approved for mobile use at the vehicle location identified by Customer. Customer will comply with the vehicle manufacturer's planning requirements and arrange for delivery of the vehicle. Equipment placed in a mobile environment must be used for medical, billing, or other non-entertainment use by bona fide medical professionals authorized to use and prescribe such use. Customer will ensure Equipment that GE HealthCare has approved for mobile use is adequately installed in accordance with GE HealthCare's applicable installation instructions.

4.9 Audit. GE HealthCare may audit Customer's use of Software, Subscription and Healthcare Digital Products to verify Customer's compliance with this Agreement up to 12 months following termination or expiration of the applicable Quotation. Customer will provide reasonable assistance and unrestricted access to the information. Customer must pay underpaid or unpaid fees discovered during the audit, and GE HealthCare's reasonable audit costs, within 30 days of written notification of the amounts owed. If Customer does not pay, or the audit reveals that Customer is not in compliance, GE HealthCare may terminate Customer's Software license, Subscription or use of the Healthcare Digital Product.

4.10 Product Inflation. For GE HealthCare imaging Products only (to exclude ultrasound and life care solutions Products), due to the potential long cycle time from Product order to Product delivery, GE HealthCare may increase Product Total Quote Net Selling Price by an amount equal to the increase in the U.S. Bureau of Labor Statistics Consumer Price Index ("CPI") from the date of Product order to the date of notice prior to Product delivery, by providing at least 4 weeks prior notice from the requested delivery date.

**5. Security Interest and Payment.**

5.1 Security Interest. Customer grants GE HealthCare a purchase money security interest in all Products in the Quotation until full payment is received, and Customer will perform all acts and execute all documents necessary to perfect GE HealthCare's security interest.

5.2 Failure to Pay. If, after Product delivery, Customer is more than 45 days past due on undisputed payments, GE HealthCare may, on 10 days' prior written notice, disable and/or remove the Products.

5.3 Lease. If Customer leases a Product, Customer continues to be responsible for payment obligations under this Agreement.

6. Trade-In Equipment. Trade-in equipment identified in a Quotation will be subject to separate trade-in terms and conditions.

7. Subscriptions. The following terms apply to all Subscriptions (excluding Healthcare Digital Products).

7.1 Commencement. Unless otherwise indicated in this Agreement or the Quotation, the Subscription commences on the date GE HealthCare provides Customer access to the Products.

7.2 Renewal / Non-Renewal. The Subscription term renews automatically for the same duration as the initial term of the Subscription unless otherwise identified in the Quotation. Except as otherwise identified in this Agreement or a Quotation, GE HealthCare may increase prices annually by no more than the Consumer Price Index for All Urban Consumers (U.S. City Average, December to December) plus 2%, upon 90 days' prior written notice. Subscriptions are not cancellable; however, either party may opt to not renew the Subscription after the initial Subscription term or any subsequent renewal term by providing at least 60 days' prior written notice to the other party prior to renewal.

7.3 Subscription Equipment. Title to Equipment and Third-Party Equipment provided via Subscription ("Subscription Equipment") remains with GE HealthCare. Customer will not place, or permit the placement of, liens, security interests, or other encumbrances on Subscription Equipment. Customer shall not repair or service Subscription Equipment, or allow others to do so, without the prior written consent of GE HealthCare.

7.4 Support Services. Unless otherwise noted in the Quotation, GE HealthCare will provide support Services as described in the Subscription Products and ViewPoint Software Maintenance Terms and Conditions.

7.5 Upgrades. Included in the Subscription fees if Customer does not owe any undisputed payments, GE HealthCare will provide upgrades if and when they become available and to the extent they are provided to all GE HealthCare customers with a Subscription for the Products, at mutually agreed upon delivery and installation dates. Upgrades do not include: (i) any optional or separately licensable features; (ii) any Products not covered by the Subscription; or (iii) any virtual environment required to host an upgraded Product. GE HealthCare shall have no obligation to provide upgrades if Products are not maintained within the current major release version or the immediately prior major release version.

7.6 Access Controls. Customer must: (i) ensure users maintain individually-assigned confidential user credentials and control mechanisms to access the Subscription; and (ii) take reasonable steps to prevent unauthorized access to Products.

7.7 Post-Termination. Upon termination or expiration of the Subscription: (i) Customer must immediately discontinue use of the Products and return Subscription Equipment to GE HealthCare in proper operating condition; (ii) Customer must destroy its copies of Software and Documentation; (iii) Customer must remove its data from Subscription Equipment; (iv) GE HealthCare is not responsible for and may destroy Customer-provided information, images or data; and (v) GE HealthCare will remove Customer's access.

7.8 Professional Services. For Services not covered under this Agreement or required due to Customer not meeting its responsibilities under the Agreement, applicable additional professional Services and fees will be required: (i) identified in the Quotation; and (ii) subject to GE HealthCare's then-current pricing.

**8. General Terms.**

8.1. Confidentiality. Each party will treat this Agreement and the other party's proprietary information as confidential, meaning it will not use or disclose the information to third parties unless permitted in this Agreement or required by law. Customers are not prohibited from discussing patient safety issues in appropriate venues.

8.2. Governing Law. The law of the state where the Product is installed, Service is provided, or Subscription is accessed will govern this Agreement.

8.3. Force Majeure. Performance time for non-monetary obligations will be reasonably extended for delays beyond a party's control.

8.4. Assignment; Use of Subcontractors. Rights and obligations under this Agreement cannot be assigned without the other party's prior written consent, unless: (i) it is to an entity (except to a GE HealthCare competitor) that (a) is an affiliate or parent of the party or (b) acquires substantially all of the stock or assets of such party's applicable business, Product line, or Service thereof; and (ii) the assignee agrees in writing to be bound by this Agreement, including payment of outstanding fees. GE HealthCare may hire subcontractors to perform work under this Agreement but will remain responsible for its obligations.

8.5. Waiver; Survival. If any provision of this Agreement is not enforced, it is not a waiver of that provision or of a party's right to later enforce it. Terms in this Agreement related to intellectual property, compliance, data rights and terms that by their nature are intended to survive will survive the Agreement's expiration or termination.

8.6. Intellectual Property. GE HealthCare owns all rights to the intellectual property in GE HealthCare's Products, Services, Documentation, Specifications, and statements of work related to a Quotation or otherwise. Customer may provide GE HealthCare with feedback related to Products, Services, and related Documentation, and GE HealthCare may use it in an unrestricted manner.

9. Compliance.

9.1. Generally. Each party will comply with applicable laws and regulations. Customer is only purchasing or licensing Products for its own medical, billing and/or non-entertainment use in the United States, or for the purposes of renting or leasing the Products for medical, billing and/or non-entertainment purposes through a mobile system or modular building where Customer maintains title to the Products. GE HealthCare will not deliver, install, service or train if it discovers Products have been or are intended to be used contrary to this Agreement. This Agreement is subject to GE HealthCare's ongoing credit review and approval. Customer is aware of its legal obligations for cost reporting, including 42 C.F.R. § 1001.952(g) and (h), and will request from GE HealthCare any information beyond the invoice needed to fulfill Customer's cost reporting obligations. GE HealthCare will provide safety-related updates for Equipment and Software required by applicable laws and regulations at no additional charge.

9.2. Security. GE HealthCare is not responsible for: (i) Customer's passwords or password management (ii) securing Customer's network; (iii) preventing unauthorized access to Customer's network or the Product; (iv) backup management; iv) data integrity; (vi) recovery of lost, corrupted or damaged data, images, software or equipment; (vii) third party operating systems, unless specifically provided in the Quotation; or (viii) providing or validating antivirus or related IT safeguards unless sold to Customer by GE HealthCare. NEITHER PARTY WILL BE LIABLE TO THE OTHER PARTY FOR DAMAGES CAUSED BY UNAUTHORIZED ACCESS TO THE NETWORK OR PRODUCTS REGARDLESS OF A PARTY'S COMPLIANT SECURITY MEASURES.

9.3. Environmental Health and Safety ("EHS"). GE HealthCare personnel may stop work without penalty due to safety concerns. Customer must: (i) comply with GE HealthCare's EHS requirements; (ii) provide a safe environment for GE HealthCare personnel; (iii) tell GE HealthCare about chemicals or hazardous materials that might come in contact with Products or GE HealthCare personnel; (iv) perform decommissioning or disposal at Customer facilities; (v) obtain and maintain necessary permits; (vi) thoroughly clean Products before Service; (vii) provide radioactive materials required for testing Products; and (viii) dispose of waste related to Products and installations.

9.4. Parts and Tubes. GE HealthCare: (i) recommends the use of parts it has validated for use with the Product; (ii) is not responsible for the quality of parts supplied by third parties to Customer; and (iii) cannot assure Product functionality or performance when non-validated parts are used. Certain Products are designed to recognize GE HealthCare-supplied tubes and report the presence of a non-GE HealthCare tube; GE HealthCare is not responsible for the use of, or effects from, non-GE HealthCare supplied tubes.

9.5. Training. GE HealthCare's training does not guarantee that: (i) Customer trainees are fully trained on Product use, maintenance or operation; or (ii) training will satisfy any licensure or accreditation. Customer must ensure its trainees are fully qualified in the use and operation of the Product. Unless otherwise identified in the training catalog, Customer will complete training within 12 months of: (a) the date of Product delivery for a Product purchase; (b) the respective start date for Services or Subscription for purchase of Service or Subscription; or (c) the date training is ordered for training-only purchases. If not completed within this time period, other than because of GE HealthCare's fault, training expires without refund. Training will be invoiced and payment due pursuant to the billing terms listed in the equipment Quotation. Recording of GE HealthCare training sessions is prohibited.

9.6. Medical Diagnosis and Treatment. All clinical and medical treatment, diagnostic and/or billing decisions are Customer's responsibility.

9.7. Connectivity. If a Product has remote access capability: (i) Customer will provide GE HealthCare with, and maintain, a GE HealthCare-

validated remote access connection to service the Product; or (ii) GE HealthCare reserves the right to charge Customer for onsite support at GE HealthCare's then-current billing rate. This remote access and collection of machine data (e.g., temperature, helium level) will continue after the end of this Agreement unless Customer requests in writing that GE HealthCare disable it.

9.8. Use of Data.

9.8.1. Protected Health Information. If GE HealthCare creates, receives, maintains, transmits or otherwise has access to Protected Health Information (as defined in 45 C.F.R. § 160.103) ("PHI"), GE HealthCare may use and disclose the PHI only as permitted by law and by the Business Associate Agreement. Before returning any Product to GE HealthCare, Customer must ensure that all PHI stored in it is deleted.

9.8.2. Data Rights. GE HealthCare may collect, prepare derivatives from and otherwise use non-PHI data related to Products and/or Services for such things as training, demonstration, research, development, benchmarking, continuous improvement and facilitating the provision of its products, software and services. GE HealthCare will own all intellectual property and other rights that could result from this collection, preparation and use. The non-PHI data will not be used to identify Customer or sold by GE HealthCare without Customer's consent.

9.9. Customer Policies. GE HealthCare will use reasonable efforts to respect Customer-provided policies that apply to GE HealthCare and do not materially contradict GE HealthCare policies. Failure to respect Customer policies is not a material breach unless it is willful and adversely affects GE HealthCare's ability to perform its obligations.

9.10. Insurance. GE HealthCare will maintain coverage in accordance with its standard certificate of insurance.

9.11. Excluded Provider. To its knowledge, neither GE HealthCare nor its employees performing Services under this Agreement have been excluded from participation in a Federal Healthcare Program. If an employee performing Services under this Agreement is excluded, GE HealthCare will replace that employee within a reasonable time; if GE HealthCare is excluded, Customer may terminate this Agreement upon written notice to GE HealthCare.

**10. Disputes and Arbitration**

10.1. Binding Arbitration. Other than collection matters and actions seeking injunctive relief to prevent or cease a violation of intellectual property rights related to Products or Services, the parties agree to submit all disputes arising under or relating to this Agreement to the American Arbitration Association ("AAA") office closest to the largest metropolitan area of the location where the Product is installed or the Service is provided for binding arbitration conducted in accordance with AAA's then-current Commercial Arbitration Rules. Costs, including arbitrator fees and expenses, will be shared equally, and each party will bear its own attorneys' fees. The arbitrator will have authority to award damages only to the extent available under this Agreement. Nothing in this Section shall allow either party to arbitrate claims of any third-party not a party to this Agreement. The parties further agree to keep confidential: (i) the fact that any arbitration occurred, (ii) the results of any arbitration, (iii) all materials used, or created for use, in the arbitration, and (iv) all other documents produced by another party in the arbitration and not otherwise in the public domain.

**11. Liability and Indemnity.**

11.1. Limitation of Liability. GE HEALTHCARE'S LIABILITY FOR DIRECT DAMAGES TO CUSTOMER UNDER THIS AGREEMENT WILL NOT EXCEED: (I) FOR PRODUCTS, THE PRICE FOR THE PRODUCT THAT IS THE BASIS FOR THE CLAIM; OR (II) FOR SERVICE OR SUBSCRIPTIONS, THE AMOUNT OF SERVICE OR SUBSCRIPTION FEES FOR THE 12 MONTHS PRECEDING THE ACTION THAT IS THE BASIS FOR THE CLAIM. THIS LIMITATION WILL NOT APPLY TO GE HEALTHCARE'S DUTIES TO INDEMNIFY CUSTOMER UNDER THIS AGREEMENT.

11.2. Exclusion of Damages. NEITHER PARTY WILL HAVE ANY OBLIGATION FOR: (I) CONSEQUENTIAL, PUNITIVE, INCIDENTAL, INDIRECT OR REPUTATIONAL DAMAGES; (II) PROFIT, DATA OR REVENUE LOSS; OR (III) CAPITAL, REPLACEMENT OR INCREASED OPERATING COSTS.

11.3. IP Indemnification. GE HealthCare will indemnify, defend and hold Customer harmless from third-party claims for infringement of United States intellectual property rights arising from Customer's use of the Equipment or Software in accordance with the Specifications, Documentation and license.

11.4. General Indemnification.

11.4.1. GE HealthCare will indemnify, defend and hold Customer harmless for losses which Customer becomes legally obligated to pay arising from third party claims brought against Customer for bodily injury or damage to real or tangible personal property to the extent the damage was caused by GE HealthCare's: (i) design or manufacturing defect; (ii) negligent failure to warn, negligent installation or

negligent Services; or (iii) material breach of this Agreement.

11.4.2. Customer will indemnify, defend and hold GE HealthCare harmless for losses which GE HealthCare becomes legally obligated to pay arising from third party claims brought against GE HealthCare for bodily injury or damage to real or tangible personal property to the extent the damage was caused by Customer's: (i) medical diagnosis or treatment decisions; (ii) misuse or negligent use of the Product; (iii) improper storage of the Product; (iv) modification of the Product; or (v) material breach of this Agreement.

11.5. Indemnification Procedure. For all indemnities under this Agreement: (i) the indemnified party must give the other party written notice before claiming indemnification; (ii) the indemnifying party will control the defense; (iii) the indemnified party may retain counsel at its own expense; and (iv) the indemnifying party is not responsible for any settlement without its written consent.

**12. Payment and Finance.**

12.1. Late Payment. Customer must raise payment disputes before the payment due date. For any undisputed late payment, GE HealthCare may: (i) suspend performance under this Agreement until all past due amounts are paid; (ii) charge interest at a rate no more than the maximum rate permitted by applicable law; and (iii) use unapplied funds due to Customer to offset any of Customer's outstanding balance. If GE HealthCare suspends performance, any downtime will not be included in the calculation of any uptime commitment. If Customer fails to pay when due: (a) GE HealthCare may revoke its credit and designate Customer to be on credit hold; and (b) all subsequent shipments and Services must be paid in full on receipt.

12.2. Taxes. Prices do not include applicable taxes, which are Customer's responsibility.

12.3 Customer Payment Obligation. If installation or acceptance is delayed more than 90 days because of any reason for which Customer or its subcontractor is responsible, GE HealthCare will provide written notice and bill the remaining balance due on the order, and Customer must pay according to the payment terms listed on the Quotation.

13. Notices. Notices will be in writing and considered delivered when received if sent by certified mail, postage prepaid, return receipt requested, by overnight mail, or by fax. Notice to Customer will be directed to the address on this Agreement, and notice to GE HealthCare to General Counsel, 9900 W Innovation Dr., Wauwatosa, WI 53226.

14. **Imaging Equipment Uptime Commitment.** GE HealthCare will provide an uptime commitment during warranty for CT, MR, nuclear imaging, and x-ray Equipment, excluding peripherals ("Eligible Equipment") if Customer provides GE HealthCare with: (i) access to Eligible Equipment through a secure connection meeting Specifications and industry best practices; (ii) notice of changes that impact Customer's connection; and (iii) prompt and unencumbered access to Eligible Equipment. The "Uptime Commitment" for nuclear imaging and x-ray Eligible Equipment is 95%, except digital mammography, digital radiographic and vascular x-ray systems and all other Eligible Equipment is 97%. Other Products may be eligible for an uptime commitment if identified in the Quotation.

If GE HealthCare fails to meet the Uptime Commitment over a 26-week period, it will extend the warranty as follows:

| % Less than Uptime Commitment | Warranty Extension |
|---|---|
| 0.1 - 3.0 | 1 week |
| 3.1 - 8.0 | 2 weeks |
| 8.1 - 13.0 | 4 weeks |
| > 13.0 | 6 weeks |

Uptime is calculated as follows:

$$\left(\frac{UptimeBase - Downtime}{UptimeBase}\right)$$

"Uptime Base" = ("a" hours per day X "b" days per week X 26 weeks) – (Planned Maintenance ("PM") hours during prior 26 weeks), where "a" hours per day and "b" days per week are determined by the standard warranty for Eligible Equipment. "Downtime" is the number of hours during which Eligible Equipment is subject to a Critical Malfunction. Downtime starts when Customer notifies GE HealthCare that Eligible Equipment is inoperable and unavailable for use due to GE HealthCare's design, manufacturing, material or performance failure ("Critical Malfunction"). Downtime ends when Eligible Equipment is available for clinical use. To be eligible for the Uptime Commitment, Customer must maintain a performance log that includes data required to calculate Downtime.

15. **DoseWatch Device License.** Each connection of a Device (defined below) to the DoseWatch Software requires Customer to purchase a unique Device license referencing a Device ID that allows concurrent use of the DoseWatch Software with that Device at a specified Customer facility on Customer's secured network. All other terms, duration and warranties applicable to the Software license apply to the

Device license. "Device" is specific Customer equipment approved by GE HealthCare to be connected to DoseWatch Software under this Agreement. Additional Device connections may be added to this Agreement, subject to individual Device licenses, and related installation, implementation, configuration and optimization services at GE HealthCare's then-current rates.

16. **Subscription Products and ViewPoint Software Maintenance Terms and Conditions.**

16.1 Overview. GE HealthCare will, in accordance with the terms and conditions of this section, maintain, support and update: (i) Products provided via Subscription (excluding Healthcare Digital Products); and (ii) ViewPoint Software licensed by Customer ("ViewPoint Software") and HIS interface software installed in the United States covered by a Software Maintenance Agreement ("SMA").

16.2 Scope.

**16.2.1** Software Support and Maintenance. GE HealthCare will use reasonable efforts to provide Error Correction (defined below) for verifiable and reproducible Errors (defined below) within a reasonable time after: (a) Customer reports the Error to GE HealthCare; or (b) detection by GE HealthCare. Updates (defined below), if released, will be provided at no additional cost as a part of this maintenance commitment. New functionality must be purchased separately, unless otherwise agreed.

**16.2.2** Equipment Maintenance. Preventative maintenance service may be required periodically during normal business hours of 8:00 a.m. to 5:00 p.m. (local time) on mutually agreed dates. Customer will make the Equipment available for preventative maintenance upon GE HealthCare request. Additional services to be performed, including specific additional terms thereof, shall be specified in the Quotation or alternate schedules.

**16.2.3** Definitions. "Error" means any Software-related problem that: (i) materially interferes with Customer's use of the Software; and (ii) results from a failure of the Software to materially conform to the Documentation. "Error Correction" means: (a) modification of the Software that corrects an Error by bringing the Software into material conformity with the Documentation; or (b) a procedure that avoids the material adverse effect of the nonconformity. "Update" means a change that provides Error Corrections and/or enhances functionality of the Software version licensed by Customer. An Update does not involve major changes or provide significant, new functionality or applications, or changes to the software architecture or file structure. Updates retain the same license as the original Software.

**16.2.4** Hotline Support. GE HealthCare will provide phone and email support during standard business hours, excluding GE HealthCare holidays, for problem solving, Error resolution and general help.

**16.2.5** Remote Access Support. GE HealthCare may access Software remotely via Customer's network and GE HealthCare-supplied secure tunnelling software to monitor Software parameters to help prevent and detect Errors. Customer will reasonably cooperate with GE HealthCare to establish remote connections. Certain modules require remote access in order to obtain support.

**16.2.6** Warranty. GE HealthCare warrants that its Services will be performed by trained individuals in a professional, workman-like manner. GE HealthCare will re-perform non-conforming Services as long as Customer provides prompt written notice to GE HealthCare. NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL APPLY. SERVICE MANUALS AND DOCUMENTATION ARE PROVIDED "AS IS". GE HEALTHCARE DOES NOT GUARANTEE PRODUCTS WILL OPERATE WITHOUT ERROR OR INTERRUPTION.

**16.2.7** Exclusions. GE HealthCare has no obligation to Customer for: (i) use of Products in combination with software, hardware, or services not recommended in writing by GE HealthCare; (ii) use in a manner or environment for which GE HealthCare did not design or license the Products, or in violation of GE HealthCare's recommendations or instructions; (iii) interface configuration (often referred to as HIS, PACS or EMR interfaces necessary due to changing vendors or versions); (iv) reorganization of Customer data; (v) consulting or software engineering and programming; (vi) support of Products outside the scope of the foregoing maintenance commitments; (vii) failure to use or install, or permit GE HealthCare to use or install, Error Corrections or Updates; (viii) failure to maintain Products within the current major release version or the immediately prior major release version; (ix) defects in products or services not made and provided by GE HealthCare; (x) any cause external to the Products or beyond GE HealthCare's control; (xi) failure of Customer's network; (xii) replacement of disposable or consumable items; (xiii) additional equipment or upgrades in connection with Products; and (xiv) migration of Software to different hardware or operating systems.

**16.2.8** Software Maintenance Agreement Term. The following applies to ViewPoint software and HIS interface software only: The SMA term and start date is identified in the Quotation and its related Schedule A. Either party may terminate the SMA without cause after the first anniversary by providing at least 90 days' prior written notice to the other party. SMA payments are due within 30 days after date of GE HealthCare's invoice.

**17. Magnetic Resonance ("MR") – Magnetic Maintenance and Cryogens.** Customer is responsible for: (i) cryogen loss due to power loss or water chiller failure for the MR's shield cooler or condenser system during installation; (ii) costs for cryogen replacement plus transfill labor at GE HealthCare's then-applicable rates; (iii) post-assembly supply and installation of cryogens, unless cryogen loss is caused by a defect in material or workmanship within the scope of GE HealthCare's warranty. MR magnetic fields attract ferro-magnetic articles and are capable of rapidly accelerating them toward the magnet, creating danger to persons in the vicinity and possible system damage. Access to the magnet room shall be limited to MR Safety Trained personnel. Third party contractors or other untrained personnel must always be supervised by a MR Safety trained representative. Magnetic and radio frequency fields may adversely affect the operation of pacemakers, equipment containing magnetic reed switches and aneurysm or surgical clips.

**1. Warranty.**

1.1. Equipment. For non-customized Equipment purchased from GE HealthCare or its authorized distributors, unless otherwise identified in the Quotation, GE HealthCare warrants that Equipment will be free from defects in title, and, for 1 year from Equipment Acceptance, it will: (i) be free from defects in material and workmanship under normal use and service; and (ii) perform substantially in accordance with the Specifications. The warranty covers parts and labor and only applies to end-users that purchase Equipment from GE HealthCare or its authorized distributors.

1.2. Software. For Software licensed from GE HealthCare, GE HealthCare warrants that: (i) it has the right to license or sublicense Software to Customer; (ii) it has not inserted Disabling Code into Software; (iii) it will use efforts consistent with industry standards to remove viruses from Software before delivery; and (iv) unless otherwise identified in the Quotation, for 90 days from Software Acceptance, Software will perform substantially in accordance with the Documentation. "Disabling Code" is code designed to interfere with the normal operation of Software, but code that prohibits use outside of the license scope is not Disabling Code.

1.3. Services. GE HealthCare warrants that its Service will be performed by trained individuals in a professional, workman-like manner.

1.4. Used Equipment. Certain Used Equipment is provided with GE HealthCare's standard warranty for the duration identified in the Quotation, but in no event more than 1 year. If no warranty is identified, the Used Equipment is provided "AS IS" and is not warranted by GE HealthCare.

1.5. Accessories and Supplies. Warranties for accessories and supplies are at www.gehealthcare.com/accessories.

1.6. Third Party Product. Third Party Product is covered by the third party's warranty and not GE HealthCare's warranties.

1.7. Subscription Products. Unless otherwise specified, Products provided via Subscription do not include a warranty.

1.8. SaaS Offerings. Unless otherwise specified, SaaS Offerings do not include a warranty.

**2. Remedies.** If Customer promptly notifies GE HealthCare of its claim during the warranty and makes the Product available, GE HealthCare will: (i) at its option, repair, adjust or replace the non-conforming Equipment or components; (ii) at its option, correct the non-conformity or replace the Software; and/or (iii) re-perform non-conforming Service. Warranty service will be performed from 8am to 5pm local time, Monday-Friday, excluding GE HealthCare holidays, and outside those hours at GE HealthCare's then-current service rates and subject to personnel availability. GE HealthCare may require warranty repairs to be performed via a secure, remote connection or at an authorized service center. If GE HealthCare replaces Equipment or a component, the original becomes GE HealthCare property and Customer will return the original to GE HealthCare within 5 days after the replacement is provided to Customer. Customer cannot stockpile replacement parts. Prior to returning Equipment to GE HealthCare, Customer will: (a) obtain a return to manufacturer authorization; and (b) back up and remove all information stored on the Equipment (stored data may be removed during repair). Customer is responsible for damage during shipment to GE HealthCare. The warranty for a Product or component provided to correct a warranty failure is the unexpired term of the warranty for the repaired or replaced Product.

GE HealthCare may provide a loaner unit during extended periods of Product service or for GE HealthCare Product training purposes. If a loaner unit is provided: (i) it is for Customer's temporary use at the location identified in the Quotation; (ii) it will be returned to GE HealthCare within 5 days after the Product is returned to Customer, and if it is not, GE HealthCare may repossess it or invoice Customer for its full list price; (iii) it, and all programs and information pertaining to it, remain GE HealthCare property; (iv) risk of loss is with Customer during its possession; (v) Customer will maintain and return it in proper condition, normal wear and tear excepted, in accordance with GE HealthCare's instructions; (vi) it will not be repaired except by GE HealthCare; (vii) GE HealthCare will be given reasonable access to it; (viii) Customer is not paying for its use, and Customer will ensure charges or claims submitted to a government healthcare program or patient are submitted accordingly; and (ix) prior to returning it to GE HealthCare, Customer will delete all information, including PHI, from it and its accessories, in compliance with industry standards and instructions provided by GE HealthCare.

NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL APPLY. SERVICE MANUALS AND DOCUMENTATION ARE PROVIDED "AS IS". GE HEALTHCARE DOES NOT GUARANTEE PRODUCTS WILL OPERATE WITHOUT ERROR OR INTERRUPTION.

**3. Limitations.** GE HealthCare has no obligation to Customer for warranty claims if Customer uses the Product: (a) for non-medical or entertainment use or outside the United States; (b) in combination with software, hardware, or services not recommended in writing by GE HealthCare; and(c) in a manner or environment for which GE HealthCare did not design or license it, or in violation of GE HealthCare's recommendations or instructions. GE HealthCare has no obligation to Customer for warranty claims for damages or deficiencies outside GE HealthCare's reasonable control.

In addition, these warranties do not cover: (i) defects or deficiencies from improper storage or handling, maintenance or use that does not conform to Specifications and/or Documentation, inadequate backup or virus protection, cyber-attacks, failure to maintain power quality, grounding, temperature, and humidity within Specifications and/or Documentation, or other misuse or abuse; (ii) repairs due to power anomalies or any cause external to the Products or beyond GE HealthCare's control; (iii) payment or reimbursement of facility costs arising from repair or replacement of the Products or parts; (iv) planned maintenance (unless applicable to Equipment), adjustment, alignment, or

calibration; (v) network and antenna installations not performed by GE HealthCare or its subcontractors; (vi) lost or stolen Products; (vii) Products with serial numbers altered, defaced or removed; (viii) modification of Product not approved in writing by GE HealthCare (ix) Products immersed in liquid; (x) for Mobile Equipment, defects or deficiencies from mobile use outside of normal transportation wear and tear (excluding OEC regarding transportation wear and tear) and (xi) replacement of disposable or consumable items.

**4. Exceptions to Standard Warranty.**

**Partial System Equipment Upgrades for CT, MR, X-Ray, IGS, PET (Scanners, Cyclotrons and Chemistry Labs) and Nuclear systems:** 6 months (only applies to the upgraded components unless the parties otherwise agree to modify the coverage of the upgraded and existing components in an existing service agreement. Optima XR240amx partial upgrades are warranted for 1 year on the wireless detector. This exception does not apply to the Artist Evo 1.5T and Premier Evo 3T upgrades which will have a full system one year warranty.

**Cyclotron and Radiopharmacy:** Warranty starts on the earlier of (i) 3 months after the date GE HealthCare completes mechanical installation, or (ii) the date Product testing is successfully completed

**MR Systems:** Warranty does not cover: (i) a defect or deficiency from failure of water chillers supplied or serviced by Customer, and (ii) for MR systems with LHe/LN or shield cooler configured superconducting magnets (except for MR Systems with LCC magnets), any cryogen supply, cryogenic service or service to the magnet, cryostat, coldhead, shield cooler compressor or shim coils unless the need for supply or service is caused by a defect in material or workmanship covered by this warranty.

**Proteus XR/a, Definium and Precision 500D X-Ray Systems:** Warranty does not cover collimator bulbs

**Performix 160A (MX160) Tubes:** 3 years

**X-Ray High Voltage Rectifiers and TV Camera Pick-Up Tubes:** 6 months

**X-Ray Wireless Digital Detectors:** In addition to the standard warranty, GE HealthCare will provide coverage for detector damage due to accidental dropping or mishandling. If accidental damage occurs, GE HealthCare will provide Customer with 1 replacement detector during warranty at no additional charge. If subsequent accidental damage occurs during warranty, each additional replacement will be provided for $30,000 per replacement. This additional coverage excludes damage caused by any use that does not conform to original equipment manufacturer ("OEM") guidelines, use that causes fluid invasion, holes, deep scratches or the detector case to crack, and damage caused by abuse, theft, loss, fire, power failures or surges. If the warranty is voided by these conditions, repair or replacement is Customer's responsibility.

**Bone Mineral Densitometry:** Alpha Source, Inc. will perform installation, application support and warranty services. Direct warranty claims to Alpha Source, Inc. at 1-800-654-9845. Upgraded computer, printer and monitor components include a 1 month warranty. Customer will not be credited the value of this warranty against pre-existing warranties or service agreements.

**OEC New or Exchange Service Parts:** 120 days

**OEC Tubes and Image Intensifiers:** 1 year

**HealthNet Lan, Advantage Review — Remote Products:** 3 months

**LOGIQ e, Venue 50, Venue Go, Versana Active and related transducers purchased with them:** 5 years

**LOGIQ V1, LOGIQ V2, Vivid iq, Vscan and Vscan Extend and related transducers purchased with them:** 3 years

Except the following have a 1 year warranty:

Transducers: TEE Probes,

Carts: Venue 50 Docking Cart, Venue Go Cart, Venue Go mounting cradle, LOGIQ e Isolation Cart, LOGIQ e Docking Cart, LOGIQ V1/V2 Cart and Vivid IQ cart

Other Accessories: Batteries (internal & external), and printers and peripherals, TEE cleaning & storage system, ICECord Connector and printers

Warranty covers defective parts and components and includes: (i) repair at GE HealthCare facilities, (ii) a loaner unit or probe replacement shipped for next business day delivery for requests received by 3pm Central Time, (iii) phone support from 7am to 7pm Central Time, Monday-Friday, excluding GE HealthCare holidays. For an additional charge, GE HealthCare may provide field support/service, planned maintenance, and/or coverage for damage due to accidental dropping or mishandling.

**LOGIQ P9 R2.5 and newer and, Versana Premier, Versana Balance, Venue and related transducers purchased with them:** 5 years

**Voluson P8 BT18 and newer, Voluson SWIFT, Voluson S8 Touch and Voluson S10 Expert, LOGIQ F8 2016 and newer, LOGIQ V5, Vivid T8 and Vivid T9 and related transducers purchased with them:** 3 years

Except the following have a 1 year warranty:

Other Accessories: Batteries (internal & external) and printers and peripherals, TEE cleaning & storage system

Transducers: TEE Probes

Warranty Includes: (i) repair at Product location by a qualified service technician Monday-Friday 8am to 5pm local time, excluding GE HealthCare holidays, and (ii) phone support from 7am to 7pm Central Time, Monday-Friday, excluding GE HealthCare holidays. For an additional charge, GE HealthCare may provide planned maintenance and/or coverage for damage due to accidental dropping or mishandling.

**Ultrasound Partial System Equipment Upgrades:** 3 months (only applies to the upgraded components). Customer will not be credited the value of the warranty against pre-existing warranties or service agreements.

**Veterinary Use:** Notwithstanding anything herein, any Product validated and sold by GE HealthCare for specific use in the veterinary market shall have a one (1) year warranty.

**Batteries:** 3 months, except for x-ray nickel cadmium or lead acid batteries and ultrasound batteries, which are warranted for 1 year

**CARESCAPE Monitors B450, B650 and B850** 3 years parts, 1 year labor (excluding displays, which are standard 1 year parts and labor)

CARESCAPE ONE : 3 year parts, 1 year labor (excluding displays, which are standard 1 year parts and labor)

Micromodules: 3 year parts, 1 year labor (i) repair services performed at GE HealthCare Repair Operations Center

**B40 Monitors:** 2 years parts, 1 year labor (excluding displays, which are standard)

**B105 B125, and B155 Patient Monitors:** 3 years with: (i) repair services performed at GE HealthCare Repair Operations Center, (ii) phone support from 7am to 5pm Central Time, Monday-Friday, excluding GE HealthCare holidays; and (iii) a loaner Product (subject to availability; shipping charges included).

**Novii Wireless Patch System- Interface and Pods:** 1 year starting 40 days after shipment with: (i) exchange services performed at GE HealthCare Repair Operations Center; and (ii) phone support from 7am to 5pm Central Time, Monday-Friday, excluding GE HealthCare holidays. Customer may elect to purchase coverage for Pod damage due to accidental dropping or mishandling. This coverage excludes patches and cables, which are considered Product accessories, and are warranted pursuant to Section 1.5 above.

**MAC 5, MAC 7, MAC 2000 and MAC 3500:** 3 years (i) repair services performed at GE HealthCare Repair Operations Center, (ii) phone support from 7am to 5pm Central Time, Monday-Friday, excluding GE HealthCare holidays

**CARESCAPE V100 and VC150 Vital Signs Monitors:** 2 years

**SEER 1000:** 2 years (i) repair services performed at GE HealthCare Repair Operations Center, (ii) phone support from 7am to 5pm Central Time, Monday-Friday, excluding GE HealthCare holidays

**Exergen:** 4 years

**Microenvironment and Phototherapy consumable components:** 1 month

**Corometrics® Fetal Monitoring:** Warranty includes: (i) warranty starting on the earlier of (a) if GE HealthCare or Customer installs, 5 days after installation or (b) 40 days after shipment; and (ii) 2 years parts, 1 year labor

**Corometrics® Nautilus Transducers:** 2 years

**Lullaby Phototherapy System:** 3 years on lamp assembly

**Blood pressure cuffs and related adaptors and air hoses:** 1 month

**Anesthesia Monitor Mounting Solutions:** If purchased directly from GE HealthCare, it will be warranted as a GE HealthCare Product

**Tec 850 Vaporizers:** 3 years

**Tec 6 Plus Vaporizers:** 2 years

**CARESCAPE Gateway:** 1 year

**CARESCAPE Bridge:** 1 year

**Vscan Air and Vscan Air Vet Warranty**: 3 years with the exception of the battery and peripherals which are covered for 1 year. Warranty covers defective parts and components and includes: (i) a replacement unit, and (ii) phone support from 7am to 7pm Central Time, Monday-Friday, excluding GE HealthCare holidays. For an additional charge, GE HealthCare may provide additional battery and/or coverage for damage due to accidental dropping or mishandling

**UNC Health Care System ("UNC HCS") Cybersecurity Language**

## A. Definitions

1. **Off-the-shelf (OTS) software** - any software product that is ready-made and available to the general public. Microsoft Windows products are examples of OTS software often selected in the design, development and implementation of medical devices capable of connecting to private intranet and public Internet networks.
2. **Open source software** - software for which the original source code is made freely available and may be redistributed and modified. Because its unrestrictive copyrights permit any party to sell or give away the software as a component of an aggregate software distribution containing programs from other sources, technology vendors commonly incorporate modified or unmodified open source software into their products. PostgreSQL, Sybase, and Linux are examples of open source software that may be integrated or bundled with a technology vendor's product.
3. **Third party software** - OTS or open source software a medical device manufacturer has designed into its product that is necessary for the performance and operation of the device.
4. **Proprietary software** - software which was either developed by the manufacturer or where the manufacturer has assumed responsibility for full support of that software including timely research, development and timely release of software patches to fix security vulnerabilities.
5. **Cybersecurity** - the body of technologies, processes and practices designed to protect networks, computers, programs and data from attack, damage or unauthorized access.
6. **Cybersecurity vulnerability** – a weakness in the software operating on a device providing the opportunity for unauthorized access to the network to which it is connected or to the medical device.
7. **Cyber threat** – an active person with software tools or a software program that takes advantage of a cybersecurity vulnerability and causes damage to networks, computers, programs or data.
8. **Controlled** and **Uncontrolled Risk** – Risk value determined by manufacturer after applying the FDA recommended risk assessment methodology as defined in the FDA Post-market Cybersecurity Guidelines. Generally speaking, cyber security vulnerabilities found to lead to device functionality impairment or malfunction which could lead to patient harm are classified as Uncontrolled Risk. Cyber security vulnerabilities that do not impact the functionality of the device, but could cause harm to a Customer network, are Controlled Risk
9. **Severity rating** – score assigned to vulnerabilities using the Common Vulnerability Scoring System (CVSS) which is developed and maintained by FIRST.org, an international confederation of trusted computer incident response teams who cooperatively handle computer security incidents and promote incident prevention programs. Critical vulnerabilities have a score of 9.0-10.0, and High vulnerabilities have a score of 7.0-8.9.
10. **Known active threat** – software or action that is actively demonstrating harm to information assets, and known to and being reported by credible cyber intelligence organizations, including but not limited to InfraGard, Center for Internet Security (CIS), United States Computer Emergency Readiness Team (US-CERT), Health Information Sharing & Analysis Center (H-ISAC), Federal Bureau of Investigation Cyber Division, or major companies with security intelligence services and reporting including but not limited to Symantec, Cisco, IBM, Sophos, FireEye, Qualys, or others.

11. **End of mainstream support date** - for a third party software product is a pre-announced date by a software company after which the company will no longer be enhancing the software. However, the company will continue to research, develop and release security and reliability fixes for the software product.

12. **End of extended support date** - for a third party software product is a pre-announced date by a software company after which the company will no longer be researching, developing and releasing security and reliability fixes for the software product.

13. **Securable software** – software for which research is being performed on software vulnerabilities, and software security patches are being developed tested and released by the software development company. In other words, software has not reached end of life (end of extended support.)

**B. Cybersecurity of Medical Device and Medical Automation Systems (Products or Product)**

1. **Applicability**
   Because cyber threats are relevant to Products that meet the following criteria, the cybersecurity clauses in this agreement apply to medical devices that meet these criteria:

   i. use OTS, open source (third party) or proprietary (manufacturer owned) software,

   ii. can connect to networks such as a private intranet or the public Internet, and

   iii. need software security updates or patches when the OTS or open source (third party) software used on the device, is discovered to be vulnerable to an exploit, virus, worm, ransomware or other threat that could adversely affect the FDA approved clinical performance of the Products, or a customer network or data, to which it is connected.

2. **Vulnerability Management and Incident Response Responsibility**
   Cybersecurity vulnerabilities in third party or proprietary software operating on Products may open the door to unwanted software changes that could affect the safety and effectiveness of the Products. Failure to properly address these vulnerabilities could result in an adverse impact to UNC HCS patients, network and data. For Products under Maintenance, the Manufacturer is responsible for:

   i. the continued safe and effective performance of the Manufacturer's Products, including the third party or proprietary software delivered with them,

   ii. maintaining a business relationship with providers of third party software required to effectively operate Manufacturer's Products, to ensure timely receipt of information concerning quality problems and recommended corrective and preventive actions,

   iii. developing a cybersecurity specific maintenance plan in compliance with the Quality System regulation (21 CFR Part 820) that includes the third party or proprietary software required for the Manufacturer's Products to operate, in order to address the need for timely software patches to correct newly discovered vulnerabilities in the software,

   iv. providing timely notification to UNC HCS regarding Manufacturer's corrective and preventive action plans when Product's component, including third party and proprietary software, is discovered to contain a vulnerability that could be exploited in a cyber-attack:

      1. Uncontrolled Risk or Known Active Threat – acknowledgement by Manufacturer within 5 days of Products known to be affected by the vulnerability exploited by the threat, and a temporary or permanent corrective and preventive action plan within 30 days of knowledge of the vulnerability.

2. Controlled risk rated Critical or High by Manufacturer, or a software vulnerability with a Severity Rating per CVSS score of Critical or High - acknowledgement by Manufacturer within 30 days of Products known to be affected by the vulnerability, and the corrective and preventive action plan within 60 days of knowledge of the vulnerability.

3. Controlled Risk rated Medium or Low by Manufacturer, or a software vulnerability with a Severity Rating per CVSS score of medium or low – Manufacturer shall review vulnerability information and security patches released by third party software providers, test security patches with Manufacturer's Products, and release patch compatibility information on a timely basis to permit Product vulnerability patching. Timing of availability of patch compatibility information shall vary by Product and risk level, however Manufacturer will release new patch compatibility information at least on a 90-day (quarterly) cycle.

v. Service agreement for Manufacturer Products must clearly define who is responsible for patching Manufacturer's Products installed on customer network, and timeliness of patching commensurate with vulnerability severity levels and corresponding security patch availability.

**3. Life Cycle**

Because outdated, unsupported software is a target for cyber threats, software required to operate Manufacturer's Products must be securable throughout the expected life of the Manufacturer's Products, and upgrades and replacements planned accordingly:

i. Manufacturer's Products under Maintenance and Installed on UNC HCS network: For third party software Manufacturer requires to operate its Products, Manufacturer will continue 1) monitoring for third party software security patch availability, and 2) compatibility testing of released third party software security patches with Manufacturer's Products throughout the expected life of the Products. In the event Manufacturer decides to discontinue monitoring for and testing third party software security patches affecting Manufacturer's Products, Manufacturer will notify UNC HCS at least 2 years in advance of ending these security maintenance functions, to allow UNC HCS time to plan for and implement a securable replacement.

ii. New Purchases of Manufacturer's Products: Manufacturer recognizes UNC HCS will not purchase Manufacturer Product that require proprietary or third party software that is no longer securable (vulnerabilities are no longer being monitored, and software security patches are no longer being developed, tested and released) by Manufacturer or by the third party software provider. Such software is considered end of life by UNC HCS. As such, in the interest of efficiency for both parties in evaluating and acquiring Manufacturer's Products and Services, Manufacturer will not propose, quote, or market Manufacturer's Product's that will be shipped with end of life proprietary or third party software. In addition, if Manufacturer proposes or quotes Products that require any software that is within 2 years of end of life, Manufacturer will include in such proposal, quote or agreement a provision for the Products upgrade or replacement, availability date for that upgrade or replacement not to exceed the end of life date of the software, and at no additional cost to UNC HCS.

**4. Disclosure**

Vendor will not propose, market or sell medical devices to UNC HCS entities for which manufacturer has not yet published the HIMSS/NEMA Standard HN 1-203 Medical Disclosure

Statement for Medical device Security (MDS2) for the medical device it wishes to propose, market or sell to UNC HCS.

5. **Vendor Remote Access**
   If applicable, UNC HCS shall provide an Internet connection on its side for remote services provided by the Manufacturer. Manufacturer agrees to follow UNC HCS's remote access security standards and methods when remotely accessing UNC HCS's network.

# ATTACHMENT 3

## Projected Capital Cost Form

| | |
|---|---|
| Building Purchase Price | N/A |
| Purchase Price of Land | N/A |
| Closing Costs | N/A |
| Site Preparation | N/A |
| Construction/Renovation Contract(s) | |
| Landscaping | N/A |
| Architect / Engineering Fees | $319,650 |
| Medical Equipment | $1,667,395 |
| Non-Medical Equipment | $206,788 |
| Furniture | |
| Financing Costs | |
| Interest during Construction | |
| Other (specify) | |
| **Total Capital Cost** | $2,193,833 |

**CERTIFICATION BY A LICENSED ARCHITECT OR ENGINEER**

I certify that, to the best of my knowledge, the projected capital cost for the proposed project is complete and correct.

Jeffry C. Heil

Signature of Licensed Architect or Engineer

Date Signed: 02/14/24

**CERTIFICATION BY AN OFFICER OR AGENT FOR THE PROPONENT**

I certify that, to the best of my knowledge, the projected total capital cost for the proposed project is complete and correct and that it is our intent to carry out the proposed project as described.

Signature of Officer/Agent

Date Signed: 2/14/24

CFO

Title of Officer/Agent

**From:** Mitchell, Micheala L
**To:** Stancil, Tiffany C
**Cc:** Yakaboski, Greg; Waller, Martha K
**Subject:** Fw: [External] UNC Health Nash MRI Exemption
**Date:** Thursday, February 22, 2024 2:05:05 PM
**Attachments:** image001.png
MRI Exemption Final.pdf

---

Hi Tiffany,

Would you mind logging this as an exemption and assigning to Greg?

Thanks,

Micheala Mitchell, JD
NC Department of Health and Human Services
Division of Health Service Regulation
Section Chief, Healthcare Planning and CON Section
809 Ruggles Drive, Edgerton Building
2704 Mail Service Center
Raleigh, NC 27699-2704
Office: 919 855 3879
Micheala.Mitchell@dhhs.nc.gov



---

**From:** Kim Meymandi <KimMeymandi@ascendient.com>
**Sent:** Thursday, February 22, 2024 2:00 PM
**To:** Mitchell, Micheala L <Micheala.Mitchell@dhhs.nc.gov>; Yakaboski, Greg <greg.yakaboski@dhhs.nc.gov>
**Cc:** Waller, Martha K <martha.waller@dhhs.nc.gov>
**Subject:** [External] UNC Health Nash MRI Exemption



Hi all-

I bet it's a beautiful day over on Dorothea Dix campus-yay for some signs of Spring.

Attached is an Exemption letter being sent on behalf of our client UNC Health Nash. When you have a chance please confirm receipt.

Thanks much and have a great afternoon,
Kim

**Kim Meymandi | Senior Consultant**
kimmeymandi@ascendient.com | 919.226.1712 | linkedin | www.ascendient.com

ASCENDIENT

HIGHER THINKING FOR HEALTHCARE MANAGEMENT

5 Strategies for The New Normal: Click here