



DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF HEALTH SERVICE REGULATION

ROY COOPER  
GOVERNOR

MANDY COHEN, MD, MPH  
SECRETARY

MARK PAYNE  
DIRECTOR

February 1, 2018

J. Michael Fields  
Post Office Box 8088  
Greenville, North Carolina 27835-8088

**Exempt from Review – Replacement Equipment**

**Record #:** 2466  
**Facility Name:** Greenville MRI  
**FID #:** 030544  
**Business Name:** Greenville MRI, LLC  
**Business #:** 852  
**Project Description:** Replace MRI Scanner  
**County:** Pitt

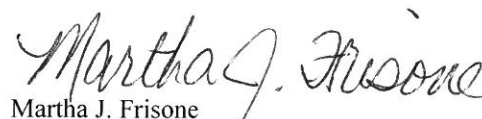
Dear Mr. Fields:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of December 15, 2017 and the confidential material, the above referenced proposal is exempt from certificate of need review in accordance with N.C. Gen. Stat. §131E-184(a)(7). Therefore, you may proceed to acquire without a certificate of need the Philips Diamond Select Ingenia 1.5T Omega MRI scanner to replace the existing 2005 Philips Achieva 1.5T 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,

  
Jane Rhoe-Jones  
Project Analyst

  
Martha J. Frisone  
Chief, Healthcare Planning and  
Certificate of Need Section

cc: Sharetta Blackwell, Program Assistant, Healthcare Planning, DHSR

**HEALTHCARE PLANNING AND CERTIFICATE OF NEED SECTION**  
WWW.NCDHHS.GOV

TELEPHONE 919-855-3873

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AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER



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120 West Fire Tower Road  
Winterville, NC 28590

P: 252.215.4026  
F: 252.215.4077  
jmf@wardandsmith.com

January 16, 2018

Via Overnight Delivery

Ms. Martha Frisone, Chief  
Ms. Jane Rhoe-Jones, Project Analyst  
Healthcare Planning and Certificate of Need Section  
NC Division of Health Service Regulation  
809 Ruggles Drive  
Raleigh, NC 27603



RE: Request to Exempt from Review – Replacement of Existing Equipment  
Facility: Greenville MRI, LLC  
Project Description: Replace MRI Scanner  
Certificate of Need Project ID: Q-006854-03  
Facility ID: 030544  
County: Pitt  
Our File 030154-00001

Dear Ms. Frisone and Ms. Rhoe-Jones:

Pursuant to my telephone conversation of today with Ms. Rhoe-Jones, I enclose an unredacted copy of the vendor's Quotation for the Replacement Equipment. It is my understanding that you will shred the document upon reviewing it and that the same will not be included in the public file.

Thank you for your assistance in this matter. Please do not hesitate to contact me if you have any questions.

Yours very truly,



J. Michael Fields

Post Office Box 8088  
Greenville, NC 27835-8088  
Overnight Delivery:  
120 West Fire Tower Road  
Winterville, NC 28590

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December 15, 2017

Via Overnight Delivery

Ms. Martha Frisone, Chief  
Ms. Jane Rhoe-Jones, Project Analyst  
Healthcare Planning and Certificate of Need Section  
NC Division of Health Service Regulation  
809 Ruggles Drive  
Raleigh, NC 27603



RE: Request to Exempt from Review – Replacement of Existing Equipment  
Facility: Greenville MRI, LLC  
Project Description: Replace MRI Scanner  
Certificate of Need Project ID: Q-006854-03  
Facility ID: 030544  
County: Pitt  
Our File 030154-00001

Dear Ms. Frisone and Ms. Rhoe-Jones:

On behalf of our client, Greenville MRI, LLC ("GMRI"), we hereby request that the Healthcare Planning and Certificate of Need Section (the "CON Section") exempt from Certificate of Need ("CON") review, pursuant to North Carolina General Statutes Section 131E-184(a)(7), GMRI's proposed purchase of a new Philips Diamond Select Ingenia 1.5T Omega magnetic resonance imaging ("MRI") scanner (the "Replacement Equipment") to replace one of its two existing MRI scanners, a 2005 Philips Achieva 1.5T MRI scanner, serial # 20000 (the "Existing Equipment"), owned and used by GMRI in its diagnostic imaging center located at 2101 W. Arlington Boulevard, Greenville, Pitt County, North Carolina, by providing a written response to this correspondence confirming that (1) the Replacement Equipment is "replacement equipment," as that term is defined by North Carolina General Statutes Section 131E-176(22a) and applicable regulations, and (2) GMRI's purchase of the Replacement Equipment does not require a CON.

Ms. Martha Frisone  
Ms. Jane Rhoe-Jones  
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North Carolina General Statutes Section 131E-184(a)(7) provides that the CON Section shall exempt from CON review the provision of replacement equipment if the CON Section receives prior written notice from the entity proposing the same, which notice includes an explanation of why the provision of the replacement equipment is required.

North Carolina General Statutes Section 131E-176(22a) defines "replacement equipment" as:

equipment that costs less than two million dollars (\$2,000,000) 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 two million dollars (\$2,000,000), 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.

The North Carolina Administrative Code ("NCAC") provides that "comparable medical equipment" is equipment which is functionally similar and which is used for the same diagnostic or treatment purposes. 10A NCAC 14C.0303(c).

The NCAC also provides that replacement equipment is comparable to the equipment being replaced if:

- (1) it has the same technology as the equipment currently in use, although it may possess expanded capabilities due to technological improvements; and
- (2) it is functionally similar and is used for the same diagnostic or treatment purposes as the equipment currently in use and is not used to provide a new health service; and
- (3) the acquisition of the equipment does not result in more than a 10% increase in patient charges or per procedure operating expenses within the first twelve months after the replacement equipment is acquired.

10A NCAC 14C.0303(d).

The NCAC further provides that replacement equipment is not comparable to the equipment being replaced if:

- (1) the replacement equipment is new or reconditioned, the existing equipment was purchased second-hand, and the replacement equipment is

Ms. Martha Frisone  
Ms. Jane Rhoe-Jones  
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- purchased less than three years after the acquisition of the existing equipment; or
- (2) the replacement equipment is new, the existing equipment was reconditioned when purchased, and the replacement equipment is purchased less than three years after the acquisition of the existing equipment; or
  - (3) the replacement equipment is capable of performing procedures that could result in the provision of a new health service or type of procedure that has not been provided with the existing equipment; or
  - (4) the replacement equipment is purchased and the existing equipment is leased, unless the lease is a capital lease; or
  - (5) the replacement equipment is a dedicated PET scanner and the existing equipment is:
    - a. a gamma camera with coincidence capability; or
    - b. nuclear medicine equipment that was designed, built, or modified to detect only the single photon emitted from nuclear events other than positron annihilation.

10A NCAC 14C.0303(e).

In order to assist the CON Section in confirming that the Replacement Equipment is "replacement equipment," as that term is defined by North Carolina General Statutes Section 131E-176(22a) and applicable regulations, please note the following:

- (1) Attached hereto as Exhibit A is a copy of the vendor's Quotation for the Replacement Equipment (with pricing redacted for confidentiality purposes).
- (2) Attached hereto as Exhibit B is a copy of the contractor's Proposal for a not-to-exceed cost of \$118,600.00 for renovations essential to making operational the Replacement Equipment.
- (3) Attached hereto as Exhibit C is an affidavit from Walter Lindstrand, Chief Operating Officer of Greenville MRI, LLC, indicating the following:
  - a. Except as contemplated in Exhibit A and Exhibit B, and except for our attorneys' fees associated with this request (which are

Ms. Martha Frisone  
Ms. Jane Rhoe-Jones  
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- estimated to be no more than \$5,000.00), no other expenditure is necessary in order to acquire or make operational the Replacement Equipment;
- b. The combined purchase price of the Replacement Equipment, cost of the renovations essential to making operational the Replacement Equipment, and attorneys' fees is well below \$2,000,000.00;
  - c. The Existing Equipment is currently in use and has not been taken out of service;
  - d. The Replacement Equipment has the same technology as the Existing Equipment, although the Replacement Equipment may possess expanded capabilities due to technological improvements;
  - e. The Replacement Equipment is functionally similar and is used for the same diagnostic or treatment purposes as the Existing Equipment and is not used to provide a new health service;
  - f. The acquisition of the Replacement Equipment will not result in more than a ten percent (10%) increase in patient charges or per procedure operating expenses within the first twelve (12) months after the Replacement Equipment is acquired;
  - g. The Replacement Equipment will be purchased not less than three (3) years after the acquisition of the Existing Equipment;
  - h. The Replacement Equipment is not capable of performing procedures that could result in the provision of a new health service or type of procedure that has not been provided with the Existing Equipment;
  - i. The Existing Equipment is owned, not leased, by GMRI; and
  - j. Why the Replacement Equipment is required.
- (4) Attached hereto as Exhibit D is a copy of a letter from the vendor acknowledging the following:
- a. The Existing Equipment will be accepted as a trade-in for the Replacement Equipment;

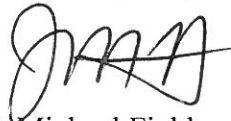
Ms. Martha Frisone  
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- b. The Existing Equipment will be permanently removed from North Carolina;
- c. The Existing Equipment will no longer be exempt from requirements of the North Carolina CON law; and
- d. The Existing Equipment will not be used in North Carolina without first obtaining a new CON.

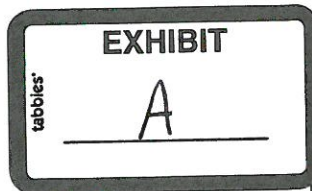
GMRI requests that you provide a written response to this correspondence which acknowledges that (1) the Replacement Equipment is "replacement equipment," as that term is defined by North Carolina General Statutes Section 131E-176(22a) and applicable regulations, and (2) GMRI's purchase of the Replacement Equipment does not require a CON.

Thank you for your assistance in this matter. Please do not hesitate to contact us if you have any questions.

Yours very truly,



J. Michael Fields



**PHILIPS HEALTHCARE**  
 A division of Philips Electronics North America Corporation  
 22100 Bothell Everett Highway  
 P.O. Box 3003  
 Bothell, Washington 98041-3003



<b>Quotation #:</b> 1-1L8U60G	<b>Rev:</b> 1	<b>Effective From:</b> 19-May-17	<b>To:</b> 19-May-17
<b>Presented To:</b> GREENVILLE MRI LLC 2200 BEASLEY DR GREENVILLE, NC 27834-2844  Tel:  <b>Alternate Address:</b>		<b>Presented By:</b> Bethann Griffith-Subik <b>Account Manager</b>  Amy Morrow <b>Regional Manager</b>  Tel: (919) 677-9046 Fax: (919) 677-9047  Tel: (828) 553-3118 Fax:	
<b>Date Printed:</b> 19-May-17			
<b>Submit Orders To:</b> 22100 BOTHELL EVERETT HWY BOTHELL WA 98021  Tel: (888) 564-8643  Fax: (425) 458-0390			

This quotation contains confidential and proprietary information of Philips Healthcare, a division of Philips Electronics North America Corporation ("Philips") and is intended for use only by the customer whose name appears on this quotation. It may not be disclosed to third parties without the prior written consent of Philips.

**IMPORTANT NOTICE:** Health care providers are reminded that if the transactions herein include or involve a loan or discount (including a rebate or other price reduction), they must fully and accurately report such loan or discount on cost reports or other applicable reports or claims for payment submitted under any federal or state health care program, including but not limited to Medicare and Medicaid, such as may be required by state or federal law, including but not limited to 42 CFR 1001.952(h).



## Quote Solution Summary

Line #	Product	Qty	Price
	100154 Diamond Select Ingenia 1.5T	1	[REDACTED]
	100309 Upgrades MR	1	[REDACTED]
Equipment Total:			[REDACTED]

## Solution Summary Detail

Product	Qty	Each	Monthly	Price
100154 Diamond Select Ingenia 1.5T	1	[REDACTED]		[REDACTED]
<b>Buying Group:</b> VIZIENT SUPPLY LLC	<b>Contract #:</b> XR0393 MRI			

**Add'l Terms:**

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

**Payment Terms: 0% Down, 80% Upon Delivery, 20% Due When the Product is Available for First Patient Use, Net due 30 days from date of invoice**

100309 Upgrades MR	1	[REDACTED]		[REDACTED]
<b>Buying Group:</b> VIZIENT SUPPLY LLC	<b>Contract #:</b> XR0393 MRI			

**Add'l Terms:**

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

**Payment Terms: 0% Down, 80% Upon Delivery, 20% Due When the Product is Available for First Patient Use, Net due 30 days from date of invoice**

## Quote Summary

100154 Diamond Select Ingenia 1.5T

Qty	Product
1	NNAX049 DS Ingenia1.5T Omega Q1 2017
1	NDSE016 no seismic anchoring required
1	NDSE014 other means of transport
1	NDSF153 dS Torso 1.5T
1	NDSF161 dS Knee 16ch 1.5T
1	NDSF261 dS Breast 7ch 1.5T
1	NDSE773 MammoTrak Biopsy Kit 1.5T
1	NDSF163 dS FootAnkle 8ch 1.5T
1	NDSF165 dS Shoulder 8ch 1.5T
1	NDSF099 SmartExam Breast
1	NDSF319 AutoVoice
1	NDSF323 mDIXON XD FFE Specialist
1	NDSF324 mDIXON XD TSE Specialist
1	NDSF374 ScanWise Implant
1	NDSF379 Black Blood imaging
1	NDSF384 3D NerveVIEW
1	FDS2186 FlexTilt
1	FDS2165 Anterior Coil Frame
1	NDSE004 Stationary
2	989801256069 MR Full Travel Package OffSite
1	NNAF952 MR Chiller
1	SP007 Rigging Charges
1	SP019 Trade in Allowance

### Options

Qty	Product
1	NDSF156 dS Flex L 1.5T
1	NDSF158 dS Flex S 1.5T
1	NDSF059 mDIXON Body Fat Quant Spec
1	FDS2164 HA FlexTrak
1	NDSF176 FlexCaddy
1	989801271129 MEDRAD MRXperion MR Injection System

## Quote Summary

100309 Upgrades MR - Serial # 70699

Qty	Product
1	NMRF067 ScanWise Implant
1	NMRF080 3D SpineVIEW

### Options

Qty	Product
1	989801256064 MR Additional Training 24 Hours OnSite

## 100154 Diamond Select Ingenia 1.5T

**System Type:** Remarketing  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a system 12 Months Warranty unless otherwise indicated. All other parts are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.  
**Additional Terms:**

Line #	Part #	Description	Qty
1	**NNAX049	DS Ingenia1.5T Omega Q1 2017	1

**LIMITED AVAILABILITY BASED UPON RECEIPT OF CONTINGENT FREE ORDER AT THE FACTORY. CURRENT AVAILABILITY OF THIS OFFERING IS 300 DAYS ARO, SUBJECT TO AVAILABILITY AND PRIOR SALE.**

**NOTE: IF CUSTOMER IS UNABLE TO ACCEPT DELIVERY BY THE ABOVE STATED ARO DATE, THEN PHILIPS MAY DETERMINE A REVISED DELIVERY DATE.**

### Ingenia 1.5T Omega

Ingenia with dStream architecture provides flexible and intelligent tools for faster exams and more consistent scanning, as well as excellent clinical performance for a variety of applications – all while increasing patient comfort. Designed for today and tomorrow, it is a safe investment that will serve your needs well into the future.

The R5 system software supports a new generation of clinical options for head, neck, spine, MSK and body imaging. In addition, R5 brings important improvements to the scanner GUI for better control and usability throughout the MR exam, including:

- Smart conflict management for improved workflow
- Selective archiving for better control of archiving & export
- Combined accession numbers for improved scan efficiency during procedure based billing
- AutoSPAIR, software controlled SPAIR delay time for consistent fat suppression
- Increased patient database image bulk storage capacity to >= 250GB
- Patient specific safety protocols with SAR/PNS management

At the heart of the Ingenia is the new dStream architecture. dStream comprises:

- DirectDigital RF receive technology, which samples the MR signal directly in the RF coil on the patient.
- FlexStream workflow, which increases system versatility and throughput
- EasyExpand, which enables plug and play expansion of clinical capabilities without major upgrades

Philips Ingenia significantly improves MR image clarity, speed and expandability.

- **Clarity:** By digitizing the signal directly on the patient, dStream captures image data where the signal is at its purest.
- **Speed:** Patient and coil handling have never been easier: flexible exam setup to meet each patient's unique situation, simplified coil changeover and optimal quality for any exam.

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>Expandability: The number of channels is determined by the coil, rather than limited by the system. This makes the MRI system forward-compatible to easily access emerging applications like body and cardiac and new enhancements for established applications like neuro and musculoskeletal imaging.</li></ul>	

### dStream architecture

Unique digital broadband MR architecture capturing the purest MR signal combined with enhanced workflow and ease of use to provide increased SNR and greater efficiency in your daily operations. In addition the number of channels is no longer determined by the MR system.

- Up to 40% greater signal-to-noise ratio (DirectDigital)
- As much as 30% improvement in throughput (FlexStream)
- Easy expandability of clinical capabilities without the need for major system upgrades (EasyExpand)

### Xtend design

System design optimized not only to provide a 70cm wide bore, but also to provide optimum quality and performance for imaging even the largest patients. Industry-leading magnet, gradient and system body coil designs provide the largest field-of-view for a 70cm system. Xtend offers the best combination of magnet homogeneity and gradient performance over a 55 cm FOV.

- Image eyes-to-thighs in as few as 2 stations
- Excellent large FOV and off-center imaging, ideal even for large patients
- Increased image accuracy for large FOV and multi-station exams

### Magnet system

- Xtend ultra-large up to 55 cm field-of-view combined with a 70cm bore system, enabling uncompromised coverage and imaging of large patients.
- Actively-shielded, lightweight design (<3300 kg) and compact fringe field (2.4 x 3.8 m) footprint for easy siting.
- Ultra compact patient-friendly magnet design - only 1.5m in length
- Best-in-class magnet homogeneity (1.8 ppm / 50 x 50 x 45 cm V-RMS) for excellent image quality, off-center imaging and fat suppression.
- Superconducting screening coils to reduce magnetic field susceptibility caused by moving external ferrous objects.
- HeliumSave zero boil-off technology for zero helium consumption (0 l/hr) under regular scanning conditions.
- Side turret design for easy installations even with low ceiling and difficult access

### Gradient system

#### Omega Gradients

High-performance gradients specifically designed for a wide bore magnet. Omega provides a high linearity and maximum peak and slew rate over the entire imaging field of view.

- Gradients with peak amplitude up to 33 mT/m (57 mT/m effective), peak slew rate up to 120 mT/m/ms (208 mT/m/ms effective). All specifications are on axis (x, y and z).

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• Superb linearity (&lt; 1.4% over 50 cm FOV) to improve geometric and diffusion accuracy, and to maximize resolution, even at the edges of the field-of-view.</li><li>• State-of-the-art water-cooled gradient coil and solid-state amplifier for high fidelity and 100% duty cycle.</li><li>• Non-resonant gradient design allows flexible generation of any type of gradient waveform.</li><li>• The integrated force-balanced design of the gradient coil and magnet reduces vibrations and ensures acoustic noise is minimized.</li><li>• Extremely low eddy currents for short echo times</li><li>• AutoSofTone further reduces gradient acoustic noise by up to 30 dB (an 86 % reduction in patient-perceived acoustic noise).</li></ul>	

### RF receive: DirectDigital and EasyExpand

DirectDigital: Unique Philips technology that samples the MR signal directly in the RF coil on the patient. The fiber-optic transmission of digital broadband data from the coil to the image reconstructor removes potential noise influences typical with analog pathways.

- Capturing the purest MR signal with up to 40% greater signal-to-noise, enabling higher speed/resolution
- Increased dynamic range (max 187 dB)

DirectDigital technology additionally includes:

- Sub-millisecond TRs and ultra-short TEs
- Real-time imaging control for clinical motion correction:
- navigator-corrections required for free-breathing cardiac techniques
- high-resolution diffusion (i.e., PhaseTrak) with profile updates within 1 ms.
- Real-time control of RF transmission, gradient switching, data acquisition and triggering.

EasyExpand: Inherent design of the dStream architecture, where channels are determined by the coils rather than the system. The MR system becomes channel independent, which means a removal of the number of channels as a system specification. This enables plug-and-play expansion of clinical capabilities.

- Expansion does not require major system upgrades, resulting in lower life cycle costs.

### dS-SENSE

Next generation parallel imaging for the dStream (dS) architecture, which simplifies and speeds up scan setup and enables higher parallel imaging factors for more speed or resolution.

- Includes quick, fully integrated reference scans which are planned automatically.

### RF transmit

- 18 kW Solid-state RF power amplifier that provides ample energy to image large patients.
- RF-SMART technology enables SAR to be effectively managed through balanced system design, and maximizes scanner performance in combination with the application of Philips-unique imaging capabilities such as SENSE, SPAIR, Flip Angle Sweep and RF amplitude control.

### Standard RF receive coils

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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### **dS T/R System Body coil 1.5T**

The integrated dS T/R System Body coil is a transmit/receive system coil which is typically used for RF excitation, but can also be used for imaging various (large) body parts.

- Solid-state quadrature Transmit/Receive technology for improved SAR control and a high signal-to-noise ratio
- DirectDigital sampling in the coil where the MR signal is at its purest
- Excellent homogeneity
- 70 cm aperture

### **dS coil solutions**

dStream (dS) coil solutions provide a full range of clinical solutions with two types of coils:

- Integrated coils combine to provide solutions for multiple applications
- Dedicated coils optimize imaging for a single application

dS coil solutions have been optimized for 3 important characteristics:

- Intrinsic signal-to-noise ratio (DirectDigital)
- Imaging coverage
- Parallel imaging performance

### **dStream Interface**

Allows the connection and digitization of the signal from traditional RF coils\* at the table. The digital signal from the interface is transferred via an optical connection to the reconstructor.

- Connector interface designed for easy connection and automatic release of coil
- Connects traditional coils up to 16 channels

\*Note: Achieva coils are not compatible with dStream interface

### **Workflow / throughput: FlexStream**

FlexStream is hinged upon the unique FlexCoverage Posterior coil that provides neck-to-toe coverage without the need for any manual coil removal or patient repositioning. The FlexCoverage Posterior coil simply combines with other unique dS coils to enable imaging with fewer coils and reduce concerns for coil positioning and patient setup. The optional FlexTrak patient transport system enables easy patient preparation and more efficient use of the MR scanner. FlexTrak solutions can instantly convert your MR system from general purpose use to dedicated advanced clinical use, such as breast imaging, intervention or therapy applications, while ensuring high throughput.

- A much a 30% improvement in throughput
- Easy coil handling through lightweight patient conforming coil design
- Large coverage coils for easier positioning
- Flexible combinations of coils
- Efficient coil usage – more applications with fewer coils
- Unique design allows up to 70% of routine applications without additional coil connections.
- FlexConnect easy to use, single-handed coil connections.

### **FlexCoverage Posterior coil**

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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Posterior coil, used routinely in 60% of all applications, is an integrated coil below the thin table top providing neck-to-toe coverage. This coil does not need to be carried, positioned, connected nor exchanged, thereby enhancing workflow. It is always there when you need it.

- Head-to-toe coverage up to 200 cm\* in combination with the base coil
- FlexConnect coil connection / connectors:

\* *WholeBody Specialist required*

Single-handed coil connection for fast and easy plugging and unplugging of coils, and for auto-eject with FlexTrak undocking in emergency cases.

The small FlexConnect connectors use advanced fiber-optic connections for carrying digital broadband MR signals.

- Enhanced reliability by eliminating delicate RF pin connections.

### **FlexTrak table top**

Ultra-thin table top that maximizes bore space. Includes coil connections directly on the table top for fast and easy setup.

- Ultra-thin design ensures minimal distance between patient and FlexCoverage Posterior coil for optimal SNR
- Ultra-strong design supports patients up to 250 kg (550 lbs)
- Wide table for enhanced patient space and comfort
- Easily removed for patient transport using the optional FlexTrak patient transport system

### **Workflow / throughput: SmartAssist**

Next generation, easy-to-use SmartExam and ExamCards software that helps the user reduce the number of manual tasks.

- Simplifies workflow by making ExamCards more efficient
- Can reduce repetitive tasks by half
- Increases efficiency, reproducibility and consistency

### **ExamCards**

A grouping of individual sequences and operations that define a clinical protocol. An ExamCard can include both the imaging sequences and any of the SmartAssist functionalities. ExamCards makes even the most complex exams simple.

- A set of Philips defined ExamCards is standard
- User-defined ExamCards can be created and stored
- Can be exported to memory stick or portable device
- Can be locked with a password to prevent unintended changes
- Can be shared among any of your scanners
- Philips Netforum provides an online community that allows ExamCards to be shared and downloaded
- Support user editable tip and procedure/viewing/networking step
- Supports single mouse-click scanner operation



## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<b>SmartStart</b> One button action that automatically moves the table to isocenter and starts the ExamCard while the operator walks back to the console reducing the setup time. SmartSelect coil and element selection	

Automatically detects and selects the right coil and coil elements to maximize the SNR matching the area to be scanned.

- Simplifies patient positioning and coil placement
- No need for manual coil or element selection
- Optimal SNR
- Facilitates higher throughput

### SmartExam planning (optional)

Assists the operator in planning the MR exam. SmartExam uses sophisticated algorithms to recognize the anatomy. Then, using previously run exams as input, SmartExam automatically positions slices on the target anatomy, and uses ExamCards to conduct the study, reducing operator input to as little as a single mouse click.

- Targeted for 100% reproducibility and consistency in outcome

SmartExam optional packages include:

- SmartExam Brain
- SmartExam Spine
- SmartExam Shoulder
- SmartExam Knee
- SmartExam Breast

### SmartLink geometry linking

SmartLink (geolink) is a tool for simplifying the planning, viewing and processing of multi-sequence multi-station exams, treating multi-station exams as one volume.

- Allows a single table sweep for multi-sequence (e.g. T1, T2, STIR) multi-station exams. All sequences are run at each station before the table is moved to the next station minimizing the number of table movements for increased patient comfort.
- Provides the flexibility to perform one sequence at all stations before starting the next sequence.
- Labels and sorts images regardless of the order in which they are acquired for subsequent viewing and processing as a single volume.
- BolusTrak (fluoroscopic scans) can be interleaved at any point during a multi-station exam.

### SmartLine processing

Smart, automated and intelligent processing of image data. SmartLine processing steps can be run simultaneously and in parallel with image acquisition. Defined in the ExamCard, the same processing settings are used every time for consistent results.

- Progress of each processing step is clearly displayed to the user alongside the scanning progress.

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Line #	Part #	Description	Qty
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The following packages are included:

- **SmartLine** VolumeView Real-time MIP, MPR and 3D surface rendering (standard or user defined volumes of interest enable elimination of unwanted signals regions)
- **SmartLine** ImageAlgebra (including addition, subtraction, relative subtraction, cumulation, ratios, MTC, ASL calculation)
- **SmartLine** PicturePlus for user-defined image filtering (smoothing and/or edge enhancement)
- **SmartLine** T1 / T2 / rho map calculation
- **SmartLine** Delayed Reconstruction enables various retrospective image reconstructions from raw data (e.g. reconstruction of various flow directions from a3D phase-contrast MRA dataset)

Scantools dependent options:

- **SmartLine** Diffusion registration
- **SmartLine** Diffusion (ADC, eADC, etc.)
- **SmartLine** IViewBold real-time fMRI analysis

### Viewing, filming and export

The MR viewing environment supports fast and flexible viewing, processing and film generation

- Window width/level, zoom, pan, rotate, mirror
- Image annotation (text, arrows and lines)
- Simultaneous visualization of up to four independent series for comparison.
- Cine movie display in various formats
- Drag & drop functionality to enable the creation of films containing random image selections
- Single mouse click film generation of image series using a range of predefined formats
- Images and movies can be exported to Windows PC formats as visible on screen

### Patient environment and patient handling

The Ingenia was designed with the patient in mind, no matter the age, size or physical condition. The Ingenia's patient environment and patient handling features enhance patient comfort and facilitate exams.

Important features:

- Lightweight, patient-conforming coils
- 70 cm bore and extra-large FOV imaging space
- Digital coil management workflow
- DirectDigital RF technology digitizes the signal in the RF coil on the patient
- SmartAssist efficiency enhancing software

Benefits include:

- More comfortable exams

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Line #	Part #	Description	Qty
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- Decreased need for coil positioning
- Fewer retakes
- Faster exams

### Patient Comfort

- 70 cm aperture for enhanced patient comfort, patient fit and reduced anxiety
- Choice of feet-first or head-first imaging for most applications
- FlexCoverage Posterior coil: Never worry about the position of the patient to this coil. No cables, no connections. This invisible, patient-friendly coil is always there when you need it.
- Lightweight, conforming coils for enhanced patient comfort and operator handling
- Ambient Ring circular light to enhance the visual openness of the system.
- Adjustable fresh air supply in 6 increments
- Adjustable variable in-bore lighting in 3 increments
- In-bore microphone and ceiling-mounted loudspeakers support two-way patient-operator communication and music.
- Hand-held technologist call button.
- Patient headset with built-in two-way communication reduces acoustic noise by up to 25 dB.
- Look-out mirror with adjustable angulation

### Patient support

- Patient support enables patients weighing up to 250 kg (550 lbs) to be comfortably positioned and lifted.
- Wide table top for improved patient comfort and accommodation of larger patients
- Patient table height can be quickly lowered, providing access for compromised or non-ambulatory patients.
- Detachable tabletop can be combined with one or more FlexTrak patient transport systems for efficient patient management and rapid egress. Supported by manual mode table release.
- Up to 200 cm\* scan range
- Horizontal travel of 275 cm (9 ft 1 in.) with +/- 0.5 mm (0.02 inch) accuracy
- Horizontal table speeds of up to 325 mm/s to enable fast, easy patient positioning and rapid multi-station examinations
- Ergonomically designed control units on both sides of the bore to increase operating flexibility.

\* WholeBody Specialist required

### Physiology measurement and gating

Wireless physiological hardware to provide synchronization for sequence triggering and gating. Wireless physiological signals can be observed on the operator's console monitor or on the optional Interventional Monitor.

- Wireless Physiology consisting of wireless Basic Triggering Unit (wBTU) and respiratory module hardware
- Physiological synchronization for sequence triggering and gating through
  - Wireless VCG
  - Wireless Respiratory
  - Wireless PPU (requires optional PPU Sensors)

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### Patient accessories

Comprehensive set of patient accessories, including

- Table mattress set
- Head/leg support
- Knee support
- Positioning wedges
- Small foam wedges
- Set of sandbags
- Set of patient fixation straps

### Computer specifications (may be supplied on one or two computers)

#### Host

- $\geq$  32 GB host memory
- $\geq$  100GB system disk
- $\geq$  250 GB main image database disk (Approx.  $\geq$  300,000 images – 256 x 256 image resolution)
- $\geq$  23-inch LCD wide-screen format monitor enabling large overview
- LCD wide screen resolution: 1920 x 1200
- MicroSoft Windows® OS 64 bits
- External storage via USB port
- 10BaseT, 100BaseT or 1000BaseT connections.

#### Recon

- Fast reconstruction of demanding imaging techniques (interactive real-time, dS-SENSE, high resolution and high coil receiver count).
- $\geq$  6000 images per second (256 x 256 reconstructions)
- $\geq$  13000 recons/sec (256 FFT, 100% FOV)
- $\geq$  32 GB reconstruction memory (RAM)

#### Connectivity / interoperability

The MR environment fits seamlessly into local network environments. Communication is performed via DICOM protocols. The system can be configured for safe storage of MR images and other patient data in departmental information systems and PACS. The MR workspace conforms to the new Enhanced (multi-frame) MR DICOM standard, which improves the performance of data transfer of large data sets and fully supports information associated with diffusion and spectroscopy.

The system can be configured (per node) to support standard DICOM MR image transfer or DICOM Enhanced MR Image Transfer. If a receiving node does not support DICOM Enhanced MR, standard DICOM MR Images will be transferred.

- DICOM Workflow Management:
  - DICOM Modality Worklist
  - DICOM Modality Performed Procedure Steps
  - DICOM Storage Commitment
- DICOM Send/Receive:
  - DICOM Enhanced MR:

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Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• Export / Import of DICOM Enhanced MR Images</li><li>• Export / Import of DICOM MR Spectroscopy</li><li>• Export / Import of DICOM Raw</li><li>• DICOM MR:<ul style="list-style-type: none"><li>• Export / Import of DICOM MR Images</li><li>• Export / Import of Philips Private MR Series Data</li><li>• Export / Import of Philips Private MR Spectrum Data</li><li>• Export / Import of Philips Private MR ExamCards Data</li></ul></li><li>• DICOM SC:<ul style="list-style-type: none"><li>• Export / Import of SC (color) Image Data</li></ul></li><li>• DICOM Grayscale Softcopy Presentation State:<ul style="list-style-type: none"><li>• Export / Import of Grayscale Softcopy Presentation State</li></ul></li><li>• DICOM Query / Retrieve of Philips MR data, all the exported image types</li><li>• DICOM Print<ul style="list-style-type: none"><li>• Grayscale Softcopy Presentation State with preset window settings as on the console</li><li>• Basic Grayscale Print</li></ul></li><li>• DICOM Media<ul style="list-style-type: none"><li>• MR Studies on DVD (Read / Write)</li></ul></li><li>• IHE Integration Profiles<ul style="list-style-type: none"><li>• Scheduled Workflow</li><li>• Patient Information Reconciliation</li><li>• Consistent Presentation of Images</li><li>• Basic Security</li><li>• Consistent Time</li></ul></li></ul>	

Full information on compliance with DICOM standards and available functionality is contained in Philips' DICOM Conformance Statement.

### Installation: EasySite and PowerSave

#### EasySite

System design for rapid installation times, compact siting footprint and low ceiling heights.

- Installation times as short as 7 days, based on prepared site conditions.
- Industry's lightest wide-bore magnet enables siting on upper floors.
- Siting (exam/technical/control room) as little as 27 m<sup>2</sup>.
- Low ceiling height
- Low transport height for easy facility access
- System / building vibration transfer minimized by special vibration pad that require no facility adaptations.

#### PowerSave

Unique, efficient design combined with smart power management of the high power sub-systems (gradient amplifiers, RF amplifiers, etc.) enable reduction in power consumption by up to 50% without affecting overall performance.

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Line #	Part #	Description	Qty
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### WholeBody Specialist

The Whole Body Specialist package enables rapid, automated whole body imaging with an effective field of view of over 2.1 m (7 ft). With ExamCards, Whole Body Specialist delivers complete multi-station head-to-toe coverage in a single table motion, through the ability to combine all imaging sequences per station (requires ScanTools Pro). Whole Body Specialist supports whole body oncology imaging studies; whole body MR angiography studies and extends DWIBS to the whole body. Ingenia's large FOV allows the full coverage in a reduced number of stations.

Key features:

- Supports up to 20 stations.
- Scanalign feature to guarantee user defined overlap between stations.
- ExamCards automates the entire acquisition. Multiple sequences can be acquired at each station, reducing table movement and shortening total exam time
- MobiView automatically generates one seamless image from multi-station data. Data from each sequence are automatically combined and presented, regardless of the order in which data are acquired

All data created can be transferred via DICOM to PACS or other workstations and all results can be converted to Windows-compatible formats.

### ScanTools Pro

ScanTools Pro provides the following generic workflow features for all clinical anatomies:

- ExamCards, for automated scanning and processing of patient studies. Examcards can be edited during scanning.
- SENSE parallel imaging methods for fast scan times, high resolution or to reduce susceptibility artifacts.
- CLEAR for signal uniformity correction based on coil-sensitivity and on patient loading.
- PicturePlus to enhance appearance of images through edge enhancement and smoothing. Provides full control over all enhancement parameters, which can be applied automatically post-acquisition or as a post-processing option.
- High-resolution acquisitions and reconstruction (1024 matrix) with slice-order selection function to adapt to various slice order conventions.
- In addition, ScanTools Pro contains fast, high resolution imaging methods for the assessment of morphology of various anatomical areas including brain and spine, MSK, body and breast, cardiac, and various blood vessels with or without contrast agents. Specific features per clinical area are listed below.

### Neuro Pro

- Sequences include SE, FFE and EPI based methods, with fat suppression methods including STIR, SPIR, ProSet and SPAIR.
- FLAIR for CSF suppression.
- Snapshot imaging, intended for uncooperative patients, designed to reduce the effects of patient and physiological motion through the combination of rapid TSE sequences and SENSE. Individual Snapshot images can be acquired in any orientation in approximately

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Line #	Part #	Description	Qty
		<p>250ms to 300ms. Asymmetric TSE makes Snapshot compatible with T1-, T2- and diffusion-weighted imaging.</p> <ul style="list-style-type: none"> <li>• Single, Dual and Triple IR sequences for evaluation of gray and white matter differentiation.</li> <li>• 2D TSE with Flip Angle Sweep technology for SAR and Magnetization Transfer reduction, improving gray/white matter contrast in both T2 and FLAIR acquisitions.</li> <li>• 3D based anatomical sequences including:               <ol style="list-style-type: none"> <li>1. VISTA, isotropic 3D TSE for volumetric acquisitions with reconstruction in any plane.</li> <li>2. 3D T1-TFE sequences for volumetric acquisition and reconstruction of the original dataset in any orientation.</li> <li>3. 3D TFE for isotropic coverage of the entire head in short scantimes using SENSE. A single data set can be reformatted into alternate planes both pre- and post-contrast.</li> </ol> </li> <li>• DRIVE for T2-weighted 2D and 3D TSE acquisitions enabling short TRs while maintaining contrast-to-noise and SNR. Used to improve fluid visualization (IAC), for short scan times and to increase resolution.</li> <li>• Balanced FFE/TFE for high-resolution high contrast (IAC and Spine applications).</li> <li>• ProSet water and fat excitation for spinal nerve root imaging. Combines the characteristics of the high-resolution volume acquisitions with ProSet water or fat only selection.</li> <li>• Multiple radial projection myelography both with 2D and 3D sequences.</li> <li>• MultiVane to correct motion for multi-shot TSE examinations with radial encoding. delivers high resolution diagnostic images even in case of patient motion for T2, IR-real &amp; FLAIR TSE imaging as well as gradient-echo examinations.</li> <li>• Dynamic multi-slice T2*-weighted sequences based on single- or multi-shot FFE-EPI methods for perfusion and fMRI sequences.</li> <li>• Single-shot EPI diffusion-weighted imaging (DWI) with three diffusion directions and up to 16 b-values, robust against motion and generating isotropic DWI images.</li> <li>• BolusTrak is designed to synchronize high-resolution CE-MRA acquisitions. BolusTrak uses a real-time fluoroscopic display of bolus arrival in the area of interest and manual start of the target acquisition. BolusTrak in combination with CENTRA minimizes venous contamination and produces optimal arterial vessel contrast and resolution.</li> <li>• TRACS enables accelerated time-resolved contrast-enhanced vascular imaging. TRACS uses SENSE for image acceleration and CENTRA phase-encode ordering for optimized contrast.</li> <li>• m-FFE provides unique image contrast - ranging from 2D or 3D gradient-echo sequences to the combination of echoes.</li> <li>• Venous BOLD provides T2*-weighted 3D sequences compatible with SENSE. These sequences are useful for evaluating various brain anomalies associated with venous blood.</li> <li>• Phase contrast (PC) sensitive imaging for the visualization of moving fluids.</li> <li>• MobiFlex and MobiView, compatible with all sequences, for easy Total Spine imaging.</li> <li>• T2* perfusion analysis.</li> <li>• Diffusion imaging processing with automatic generation of the ADC maps.</li> <li>• 3D Brain VIEW and 3D Spine VIEW deliver high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes.</li> <li>• Dynamic multi-slice T2*-weighted sequences based on single- or multi-shot FFE or FFE EPI methods, including the PRESTO technique.</li> <li>• Processing and calculation of T1 and T2* hemodynamic maps including Mean Transit Time (MTT), Time to Peak (TTP), Time of Arrival (T0), Negative Integral (NI), Index or upslope. All post-processing can be included as an in-line step within Examcard</li> <li>• Prospective motion correction: accounts for subject motion by real time monitoring of motion during acquisition and adjustment of acquisition parameters accordingly.</li> </ul>	

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Line #	Part #	Description	Qty
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Additional information on 3D PRESTO:

- Whole brain coverage and high temporal-resolution T2\*-weighted imaging for perfusion-weighted and BOLD imaging studies.
- High temporal resolution and coverage compared to traditional multi-slice techniques.
- Reduce sensitivity to susceptibility and flow artifacts associated with EPI techniques, enabling imaging throughout the brain and into the skull base.

MSK Pro

- SE, TSE, and FFE sequences, with fat suppression provided by STIR, ProSet, SPIR and adjustable fat suppression with the SPAIR method.
- Balanced acquisitions (bFFE) for high-resolution morphology scans.
- DRIVE combined with TSE to increase sensitivity to fluids (with good T2 weighting), even with short TRs.
- Turbo-STIR for fat-suppressed evaluation of bone bruises.
- TSE with asymmetric profile ordering for proton density weighted imaging of joints with high spatial resolution or short scan times.
- Mixed Mode (interleaved IR/SE for combined T1 & T2 map calculation).
- Multi-Echo T2 measurements (up to 32 echoes) for T2 mapping.
- 3D FFE with ProSet for water-only (selective excitation) sequences. Optimizes cartilage and/or fluid imaging with high-resolution in all directions.
- e-THRIVE for 3D high-resolution fat-suppressed imaging.
- MobiFlex for simple visualization of total spine imaging and multiple-station long bone studies.
- Dynamic imaging sequences for TMJ or other joint studies.
- Includes protocols for imaging in the presence of prostheses, with improved susceptibility using SENSE, modifications of water-fat shift and user-specified bandwidth.
- Up to 1024 acquisition resolution and flexible reconstruction resolution via interpolation.
- 3D MSK VIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes. Available in various joints in all common contrasts.

Body Pro

- TSE sequences with respiratory triggering (in combination with breath hold or free breathing).
- MultiVane motion correction for T2w TSE diagnostic images, even in case of severe patient motion.
- In and out of phase FFE/TFE sequences .
- SPAIR for high uniformity fat saturation.
- e-THRIVE volumetric imaging with fat suppression, in short breath-hold times Keyhole for high temporal dynamic imaging.
- Diffusion-weighted sequences with automated creation of Apparent Diffusion Coefficient (ADC) maps.
- MRCP sequences, (radial) single shot and 3D acquisitions.
- High-resolution pelvic imaging.
- VISTA: isotropic 3D TSE pelvic imaging allowing volumetric acquisitions to be reconstructed in any plane.



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Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• MobiView and MobiFlex for automatic composition of data sets from multi-station acquisitions into full FOV images.</li><li>• Dynamic scan techniques for monitoring and evaluation of contrast uptake viewing.</li><li>• High Resolution Diffusion / DWIBS package enables single or multi-station high resolution diffusion weighted imaging with background suppression. Patient and physiological motion is controlled by navigator-based motion correction.</li><li>• MotionTrak Body includes a real-time respiratory navigator to synchronize data acquisition to the respiratory cycle of the patient. Options include: gating, tracking, gating &amp; tracking, triggering, triggering &amp; tracking. Tracking can improve slice accuracy position over multiple breath hold sequences. Designed for all Body applications, including diffusion and DWIBS.</li><li>• 3D Pelvis VIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes</li></ul>	

### Breast Pro

- SPAIR for high uniformity fat saturation.
- e-THRIVE for volumetric coverage with uniform fat suppression.
- BLISS, two bilateral sagittal volumes within a single acquisition.
- Diffusion-weighted sequences with automated creation of Apparent Diffusion Coefficient (ADC) maps.
- Silicone-Only sequences optimized for breast implants.
- 3D Breast VIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes.

### Cardiac Pro

- Black blood prepulses to suppress blood signal for optimized myocardial and lumen visualization.
- Single Slice / Multi Phase for function studies.
- Retrospective triggering with real-time prospective updating for full R-to-R coverage of function studies.
- Temporal profile sharing for playback frame rates higher than acquisition frame rates.
- VCG gating for robust ECG gating and triggering (includes a four-lead cable set).
- Multi-slice capability to multi-phase cine acquisitions.
- ECG-triggered STIR (inversion recovery TSE) including black blood imaging (triple IR).
- ECG-triggered Inversion Recovery (including PSIR) for myocardial tissue characterization.

### MRA Pro

- 3D FFE sequences for assessment of carotids, peripherals and renal arteries, and for contrast enhanced MRA.
- Quantitative flow with variable VENC values for non-invasive measurements of blood flow in three directions.
- 2D/3D Balanced TFE/FFE for fast, high-resolution non-contrast enhanced vascular imaging.
- Phase-Contrast Angio for imaging of brain vasculature.
- TRANCE for 3D high contrast TSE acquisitions without vascular contrast agents.

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Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• Time-of-flight (inflow) sequences with TONE to improve contrast and MTC to reduce the peri-orbital fat signal.</li><li>• CENTRA for 3D high-resolution contrast enhanced imaging to allow increased spatial resolution without venous contamination.</li><li>• Keyhole imaging to improve temporal resolution in dynamic studies.</li><li>• BolusTrak for synchronization of high-resolution CE-MRA acquisitions with a real-time fluoroscopic display of bolus arrival in the area of interest.</li><li>• MobiView for automated composition of multi-station acquisitions (e.g. MRA runoffs) into single images.</li><li>• MobiFlex for setup and acquisition of complex multi-station exams, combining different FOVs, resolution, geometries and SENSE acceleration factors.</li><li>• Non-invasive quantitative flow measurements of blood, including overlaid color-encoded flow maps on the console.</li><li>• b-TRANCE (balanced TRANCE), a 3D TFE technique with ECG triggering, particularly powerful as a non-contrast enhanced MRA method for renal artery patients.</li></ul>	

### ComforTone

ComforTone provides up to 80% noise reduction within the same time and virtually the same IQ and contrast\*.

ComforTone ExamCards will be available for routine exams (Brain, Spine, MSK) where the reduced noise is guaranteed over the whole ExamCard, including the reference scans.

\* Compared to scanning without ComforTone

### dS HeadNeckSpine Pack 1.5T

#### dS TotalSpine 1.5T

An integrated coil solution for total spine related imaging. It includes the FlexCoverage Posterior and the Base coil with 90 cm coverage, using 44 channels maximum.

Posterior coil, used routinely in 60% of all applications, is an integrated coil below the thin table top providing neck-to- toe coverage. This coil does not need to be carried, positioned, connected nor exchanged, thereby enhancing workflow. It is always there when you need it.

- Coverage: 90 cm
- Maximum nr. of channels: 44
- Main applications: Total spine, C-Spine, T-Spine, L-Spine
- Coil type: Integrated
- DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
- Single FlexConnect coil connection and cable for fast and easy setup
- The Base coil can stay on the table for most examinations without exchanging coils

#### dS HeadSpine 1.5T

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Line #	Part #	Description	Qty
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An integrated coil solution for head and total neuro related imaging. It includes the Head coil. Combined with the FlexCoverage Posterior coil and Base it enables:

- 30 cm coverage, using 15 channels maximum (Head)
- 90 cm coverage, using 51 channels maximum (Total Neuro)

The head section can be tilted to provide optimal positioning and comfort for challenging patients such as Kyphosis patients.

- Coverage: 30 cm (Head) and 90 cm (Total Neuro)
- Maximum nr. of channels: 15 (Head) and 51 (Total Neuro)
- Main application: Head, Brain, Total Neuro, Total spine, C-Spine, T-Spine, L-Spine
- Coil type: Integrated
- Lightweight coil(s)
- DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
  - dS-SENSE capable in AP, LR and FH directions
- Cable-less connection of top coil

### dS HeadNeckSpine 1.5T

An integrated coil solution for head, neck and total neuro related imaging. It includes the HeadNeck coil. Combined with the FlexCoverage Posterior coil and Base it enables:

- 45 cm coverage, using 20 channels maximum (Head-Neck)
- 90 cm coverage, using 52 channels maximum (Total Neuro)
  
- Coverage: 45 cm (HeadNeck) and 90 cm (Total Neuro)
- Maximum nr. of channels: 20 (HeadNeck) and 52 (Total Neuro)
- Main applications: NeuroVascular, Head, Brain, Pediatric, Total Neuro, Total spine, C-Spine, T-Spine, L-Spine
- Coil type: Integrated
- Lightweight coil(s)
- DirectDigital sampling in the coil for the purest MR signal without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
  - dS-SENSE capable in AP, LR and FH directions
- Cable-less connection of top coil

### dS Flex M 1.5T

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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An integrated coil solution for general-purpose imaging. It includes two medium-sized flexible general-purpose coils. Combined with the FlexCoverage Posterior coil they enable 15 cm coverage, with a maximum of 6 channels.

The shape and size of the flexible coil elements enable a wide variety of applications, including imaging of medium sized anatomies. The coil can be used to locally enhance resolution of images acquired over a larger FOV, for example in pediatric applications.

- Coverage: 15 cm
- Maximum nr. of channels: 6
- Main applications: Shoulder, Foot, Ankle, Knee, Pediatric
- Coil type: Integrated
- dS-SENSE enhanced parallel imaging performance

### dS SmallExtr 8ch 1.5T

Semi-flexible coil designed for imaging of elbows, hands and small knees. The coil has an inner diameter of 20 cm to match the size of the small extremities. It has a flexible wrap-around design for easy positioning and good fit. A mattress that supports both patient and coil is provided to increase patient comfort and avoid motion.

- Coverage: 20 cm
- Maximum nr. of channels: 8
- Main applications: Elbow, Arm, Extremities
- Coil type: Dedicated
- dS-SENSE enhanced parallel imaging performance

### Vascular positioning pack

Comprehensive set of Vascular accessories, including:

- Arm Support to provide additional support for a patients arm when injections are required. The support easily slides under the patient and can be positioned on either side of table.
- Anterior Coil Frame to create a distance between the coil and the patient thereby avoiding direct contact (e.g. for peripheral vascular disease, pediatric patients).
- Feet Immobilizer to fixate the feet and lower legs in a comfortable and reproducible fashion. It is designed to reduce patient motion in peripheral vascular and whole body imaging.
- A Knee Support that allows for comfortable positioning of the patient to reduce patient motion

### HA Console table

Standard office table for MR-operator

- Table surface 160x100 cm
- Adjustable Height

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Line #	Part #	Description	Qty
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### PPU for wireless physiology

The PPU for wireless physiology package contains a peripheral pulse sensor with the following 4 different sizes: neonate, infant, pediatric and adult. This option is required to use the peripheral pulse as a means to do physiological synchronization for sequence triggering and gating. The sensor can be positioned on finger, toe or foot, and is compatible with the HFO and Achieva platforms. This package is ONLY compatible with Achieva and/or Panorama systems with wireless physiology.

### DVD-PC

Local media storage option intended for burning and reading DICOM data on medical grade DVD's. This option enables the operator to burn DVD's directly or prepare multiple DVD's for burning later.

- Includes DICOM viewer on every DVD created
- Create multiple DVD's for exchange with off-line stations
- Burn DVD's independently of other scanner functions.
- Dimensions (hxwxd): 10x34x38cm

### Clinical Education Package for DS Ingenia:

#### Customer Applications Training \_Introduction to Philips MR Release 5 - Learning Path 1:

This online pre-learning material will introduce the User Interface and clinical handling of the MR scanner to prepare the technologist for on-site training. Learning Path 1 will guide the technologist through specific workflow steps, this self-paced learning module is highly recommended for all Ingenia users and should be completed prior to Essentials OffSite or Handover Onsite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips.

**Release 5 Essentials OffSite Education:** The MR Release 5 Essential course is a prerequisite to attending the MR Release 5 Advanced Concepts course. Philips will provide up to two (2) technologists, as selected by customer, with in-depth didactic, tutorial, and hands-on training covering basic functionality and work-flow of the magnetic resonance imaging system. This twenty-eight (28) hour class is located in Cleveland, Ohio, and is scheduled based on your equipment configuration and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. In order to provide trainees with the ability to apply all fundamental functioning on their system, and to achieve maximum effectiveness, this class should be attended no earlier than two weeks prior to system installation, and trainee should have prior knowledge of basic MR theory. CEU credits may be available for each participant that meets the guidelines provided by Philips.

**Handover OnSite Education:** Philips Education Specialists will provide twenty-eight (28) hours of education for up to four (4) students, as selected by customer. Students should attend all 28 hours, and must include the two OffSite education attendees. This course does not cover Cardiac or Spectroscopy. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient-ready, including all inspections approved, all accessory equipment installed and functioning (injectors, hard copy units, film processors and physiologic monitors), and all supplies stocked.

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Line #	Part #	Description	Qty
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Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

**FollowUp OnSite Education:** Philips Education Specialists will provide twenty-eight (28) hours of Follow-Up Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Customer must have operated the system for at least 30 days. CEU credits may be available for each participant that meets the guidelines provided by Philips. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

**PLEASE NOTE:** For all OffSite Education listed above: CEU credits may be available for each participant that meets the Guidelines provided by Philips. Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292093 (MR Full Travel Pkg OffSite) is purchased with all OffSite courses. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. OffSite training is scheduled based on your equipment configuration and availability.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref# 62616026614615-20150615

2	**NDSE016	no seismic anchoring required	1
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3	**NDSE014	other means of transport	1
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4	**NDSF153	dS Torso 1.5T	1
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An integrated coil solution for body and peripheral vascular related imaging. It includes the FlexCoverage Anterior coil. Combined with the FlexCoverage Posterior coil it enables 60 cm coverage, with a maximum of 32 channels.

The flexible, lightweight easy-to-position FlexCoverage Anterior coil is designed to conform both in right-left and foot-head directions for almost any patient. This enables large coverage and comfortable strap-free operation.

- Coverage: 60 cm
- Maximum nr. of channels: 32
- Main applications: Torso, Chest, Pelvis, Heart, Peripheral-vascular
- Coil type: Integrated
- Lightweight coil(s)
- DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
  - dS-SENSE capable in AP, LR and FH directions
- Single FlexConnect coil connection and cable for fast and easy setup

5	**NDSF161	dS Knee 16ch 1.5T	1
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**100154 Diamond Select Ingenia 1.5T**

<b>Line #</b>	<b>Part #</b>	<b>Description</b>	<b>Qty</b>
		<p>Coil designed for ultra-high SNR imaging over an extended field of view of the knee and other extremities. Two overlapping rings of eight elements extend the coverage area and minimize the need for precise positioning. dS-SENSE enhanced parallel imaging can be selected in all directions. The dS Knee 16 ch has a split design for easy patient setup and an ergonomically ramped insert for patient comfort.</p> <ul style="list-style-type: none"> <li>• Coverage: 20 cm</li> <li>• Maximum nr. of channels: 16</li> <li>• Main applications: Knee, extremities</li> <li>• Coil type: Dedicated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>	
<b>6</b>	<b>**NDSF261</b>	<b>dS Breast 7ch 1.5T</b>	<b>1</b>
		<p>A rigid, open-designed coil that can be used alone or in combination with FlexTrak Mammo. The dS Breast 7ch coil is designed for optimal coverage of the axilla region and outstanding performance. The dS Breast 7ch has an open design and will be delivered with compression plates that can be applied in either LR or FH direction. If applied mildly the compression plates will help to reduce motion of the breast therefore contributes to improved image quality. Mild compression in FH also reduces the imaging volume in FH direction which might help to shorten the scan time.</p> <ul style="list-style-type: none"> <li>• Coverage: Bilateral</li> <li>• Maximum nr. of channels: 7</li> <li>• Main application: Breast</li> <li>• Coil type: Dedicated</li> <li>• dS-SENSE enhanced parallel imaging performance. SENSE can be applied in LR and FH direction for enhanced resolution or speed</li> <li>• Very comfortable coil with optimized patient comfort ramp</li> <li>• Includes immobilization plates (for both LR and FH direction) to reduce motion artifacts and accommodate a large range of patient sizes</li> <li>• The dS Breast 7ch coil is compatible with Breast Biopsy Kit (NMRB280).</li> <li>• Integrated LED light offering clear view during biopsy procedure</li> </ul>	
<b>7</b>	<b>**NDSE773</b>	<b>MammoTrak Biopsy Kit 1.5T</b>	<b>1</b>
		<p>Breast biopsy kit allowing the physician to practice a breast biopsy procedure on a phantom. The breast biopsy kit contains a full array of sterile disposables:</p> <ul style="list-style-type: none"> <li>• 1 Breast Biopsy Practice Phantom</li> <li>• 3 Grid plates M-L</li> <li>• 3 Pillar plates M-L</li> <li>• 3 Grid plates C-C</li> <li>• 3 Pillar plates C-C</li> <li>• 1 Localizer Needle</li> <li>• 1 FlexiLoc Needle</li> <li>• 1 ClipLoc Needle</li> <li>• 1 Fully Automatic Biopsy gun</li> <li>• 1 Semi-Automatic Biopsy gun</li> <li>• 1 Coax Needle</li> <li>• 1 Coax Needle High Field</li> <li>• 3 Needle hub assembly</li> </ul>	

**100154 Diamond Select Ingenia 1.5T**

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"> <li>• 3 Needle Blocks (12G)</li> <li>• 3 Needle Blocks (18G)</li> <li>• 3 Needle Sleeve (12G)</li> <li>• 3 Needle Sleeve (18G)</li> <li>• 1 Post &amp; Pillar M-L</li> <li>• 1 Post &amp; Pillar C-C</li> <li>• 1 Breast blocker</li> <li>• 2 Fiducial marker assembly</li> <li>• 1 Fiducial sleeve</li> <li>• 1 Fiducial marker block</li> <li>• 3 Needle Block Holder</li> </ul>	
		NOTE: Compatible with the Ingenia 1.5T dS Breast 7ch coil, Ingenia 1.5T FlexTrak Mammo 7ch, Achieva/Intera 1.5T MammoTrak 7ch.	
8	<b>**NDSF163</b>	<b>dS FootAnkle 8ch 1.5T</b>	<b>1</b>
		<p>Ski-boot shaped coil for optimum coverage of the ankle and entire foot up to the toes. The coil design and element layout allow for either large FOV imaging of the whole foot or small FOV high resolution imaging for ankle joints. The coil is easy to set up and can be used with the patient's foot vertical or up to 15 degrees plantar flexed.</p> <ul style="list-style-type: none"> <li>• Coverage: 30 cm</li> <li>• Maximum nr. of channels: 8</li> <li>• Main applications: Foot, Ankle, Toes</li> <li>• Coil type: Dedicated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>	
9	<b>**NDSF165</b>	<b>dS Shoulder 8ch 1.5T</b>	<b>1</b>
		<p>Coil designed for high uniformity throughout the shoulder joint, with excellent penetration into the labrum. The coil consists of a base plate and an adjustable shoulder cup which can be raised and pivoted for comfortable positioning. Adjustable design for a comfortable fit for either left or right shoulder.</p> <ul style="list-style-type: none"> <li>• Coverage: 12 cm LR</li> <li>• Maximum nr. of channels: 8</li> <li>• Main application: Shoulder</li> <li>• Coil type: Dedicated</li> <li>• DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling: <ul style="list-style-type: none"> <li>• Enhanced SNR</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul> </li> <li>• Single FlexConnect coil connection for fast and easy setup</li> </ul>	
10	<b>**NDSF099</b>	<b>SmartExam Breast</b>	<b>1</b>
		SmartExam Breast: enables consistent fat suppression and reproducible image quality of breast examinations, independent of patient or operator.	
11	<b>**NDSF319</b>	<b>AutoVoice</b>	<b>1</b>
		With AutoVoice the patient is guided through the MR examination with voice audio information to the patient on length of scan, breath hold and table movement. Multiple languages can be selected. Includes a recording option for specific commands or languages.	



**100154 Diamond Select Ingenia 1.5T**

<b>Line #</b>	<b>Part #</b>	<b>Description</b>	<b>Qty</b>
12	<b>**NDSF323</b>	<b>mDIXON XD FFE Specialist</b> mDIXON XD FFE Specialist brings the next generation mDIXON algorithms for enhanced fat-free performance with a 2-point mDIXON method with flexible echo times and a 7-peak fat spectrum algorithm. mDIXON XD FFE Specialist provides fat-free FFE imaging with large FOV and sub-millimeter resolution, not only for body imaging, but also for challenging anatomies, including head, neck and spine and single station subtractionless MRA. <i>Note: for Whole Body Imaging and Peripheral MR (an update to) mDIXON XD FFE MultiStation is required!</i>	<b>1</b>
13	<b>**NDSF324</b>	<b>mDIXON XD TSE Specialist</b> mDIXON XD TSE Specialist brings the next generation mDIXON algorithms for enhanced fat-free performance, with a fast, 2-point mDIXON method, flexible echo times and a 7-peak fat spectrum algorithm. mDIXON XD TSE Specialist can be combined with Multivane XD in the head for simultaneous fat- and motion free imaging. mDIXON XD TSE can be used in various parts of the body, including MSK, head & neck, spine and pelvis.	<b>1</b>
14	<b>**NDSF374</b>	<b>ScanWise Implant</b> ScanWise Implant is a user interface with guidance that simplifies scanning patient with MR Conditional implants. It allows you to enter the implant's MR Conditional values only once and as specified by the implant manufacturer. It will automatically adjust all scan and pre-scan parameters to meet the implant conditional values entered by the operator. ScanWise implant makes your MR scanner adhere to the entered implant conditions throughout the whole examination.	<b>1</b>
15	<b>**NDSF379</b>	<b>Black Blood imaging</b> The Black Blood (BB) imaging option enables suppression of intra-lumen signal over the complete imaging volume by means of a special pre-pulse. E.g. BB imaging combined with isotropic 3D TSE acquisitions delivers high spatial resolution data with clear intra-lumen blood suppression in scans in the body like brain, head-neck, liver, etc. The approach is compatible with high 3D dS SENSE factors.	<b>1</b>
16	<b>**NDSF384</b>	<b>3D NerveVIEW</b> 3D NerveVIEW delivers high resolution isotropic 3D TSE acquisitions of the Brachial Plexus and Lumbar Plexus with short scan times by employing high 3D dS SENSE factors, and combining it with high bandwidth STIR fat suppression, and brings improved nerve depiction when applied with black blood (MSDE) suppression pulses. Isotropic acquisition allows reformats in arbitrary planes.	<b>1</b>
17	<b>**FDS2186</b>	<b>FlexTilt</b> The FlexTilt is an easy to use device which allows the dS Base in combination with the dS Head and dS HeadNeck coils to be tilted. The coils can be tilted up to 18 degrees in incremental steps of 2 degrees.	<b>1</b>
18	<b>**FDS2165</b>	<b>Anterior Coil Frame</b> The Anterior coil frame creates a distance between the coil and the patient thereby avoiding direct contact (e.g. for peripheral vascular disease, pediatric patients).	<b>1</b>
19	<b>**NDSE004</b>	<b>Stationary</b>	<b>1</b>
20	<b>**989801256069</b>	<b>MR Full Travel Package OffSite</b>	<b>2</b>

**100154 Diamond Select Ingenia 1.5T**

Line #	Part #	Description	Qty
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Includes one (1) participant's airfare from North American customer location to Cleveland, Ohio with lodging, ground transportation, and meal expenses. Breakfast/dinner provided by the hotel, and lunch/breaks are catered by Philips. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process.

Note: Cancellation/rescheduling policy strictly enforced.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

21	**NNAF952	<b>MR Chiller</b>	<b>1</b>
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Chiller and associated hardware designed in accordance with cooling requirements necessary for selected MR scanner with appropriate ambient and seismic options. Bundle includes chiller, remote display, interface panel and start-up kit. Installation cost is not included.

22	SP007	<b>Rigging Charges</b>	<b>1</b>
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Rigging

23	SP019	<b>Trade in Allowance</b>	<b>1</b>
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Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in.

Product: 781178 Achieva 1.5T  
 Serial Number: 533588  
 Manufacturer: PHILIPS HEALTHCARE

Trade-In authorization number: 43254

Trade-In Value: XXXXXXXXXX

De-install Date: 12/29/2017

Customer will be trading-in equipment that is described on the attached System Disclosure Form (the "Trade-In"), which Trade-In the parties agree (i) will be removed on the De-install Date and (ii) is currently in the condition as represented on the System Disclosure Form. In addition, the parties agree as follows:

1. Customer represents and warrants that Customer has good and marketable title to the Trade-In as of the date of this Quotation and will have good and marketable title when Philips removes the Trade-In from Customer's site (the "Removal Date");
2. Title to the Trade-In shall pass from Customer to Philips on the Removal Date, unless otherwise agreed by Philips and the Customer;
3. Notwithstanding anything to the contrary in any Business Associate Addendum, Customer represents and warrants that as of the Removal Date all Protected Health Information will have been de-identified or removed from the Trade-In;
4. Philips may test and inspect the Trade-In prior to de-installation. If the condition of the Trade-In is not substantially the same on the Removal Date (ordinary wear and tear excepted) as it is identified on the System Disclosure Form, then Philips may reduce the price quoted for the Trade-In;
5. If the removal date is delayed until after the De-Install Date, unless Philips causes the delay, then Philips may reduce the price quoted for the Trade-In by six percent (6%) per month.
6. Philips is responsible for normal de-installation costs of the Trade-In.
7. The trade-in value will not include costs associated for any facility modifications and/or rigging required for de-installation and must be accounted for separately.
8. Customer is responsible for all plumbing necessary to properly drain coolant from chiller system and cap the lines.
9. Prior to the Removal Date, Customer shall remove from the room all equipment that is not being de-installed.

100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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100154 Diamond Select Ingenia 1.5T

NET PRICE



Buying Group: VIZIENT SUPPLY LLC

Contract #: XR0393 MRI

Add'l Terms:

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

Price above does not include any applicable sales taxes.

The preliminary delivery request date for this equipment is: \_\_\_\_\_.

If you do not issue formal purchase orders indicate by initialing here \_\_\_\_\_.

Tax Status:

Taxable \_\_\_\_\_ Tax Exempt \_\_\_\_\_

If Exempt, please indicate the Exemption Certification Number: \_\_\_\_\_, and attach a copy of the certificate.

Delivery/Installation Address:

Invoice Address:

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Contact Phone #:

Contact Phone #:

\_\_\_\_\_

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Purchaser approval as quoted:

Date:

\_\_\_\_\_

\_\_\_\_\_

Title:

\_\_\_\_\_

This quotation is signed and accepted by an authorized representative in acknowledgement of the system configuration, terms and conditions stated herein.

**100154 Diamond Select Ingenia 1.5T**

**OPTIONS**

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
1	**NDSF156	<b>dS Flex L 1.5T</b>	1			
		<p>An integrated coil solution for general-purpose imaging. It includes two large flexible general-purpose coils. Combined with the FlexCoverage Posterior coil they enable 20 cm coverage, with a maximum of 8 channels.</p> <p>The shape and size of the flexible coil elements enable a wide variety of applications, including imaging of large anatomies. The coil can be used to locally enhance resolution of images acquired over a larger FOV, for example in pediatric applications.</p> <ul style="list-style-type: none"> <li>• Coverage: 20 cm</li> <li>• Maximum nr. of channels: 8</li> <li>• Main application: Shoulder, Hip, Head, Brachial plexus, Pelvis, Cardiac, Pediatric</li> <li>• Coil type: Integrated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>				
2	**NDSF158	<b>dS Flex S 1.5T</b>	1			
		<p>An integrated coil solution for general-purpose imaging. It includes two small flexible general-purpose coils. Combined with the FlexCoverage Posterior coil they enable 10 cm coverage, with a maximum of 4 channels.</p> <p>The shape and size of the flexible coil elements enable a wide variety of applications, including imaging of small anatomies. The coil can be used to locally enhance resolution of images acquired over a larger FOV, for example in pediatric applications.</p> <ul style="list-style-type: none"> <li>• Coverage: 10 cm</li> <li>• Maximum nr. of channels: 4</li> <li>• Main applications: Elbows, Wrist, Ankle, Inner ear, Pediatric</li> <li>• Coil type: Integrated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>				
3	**NDSF059	<b>mDIXON Body Fat Quant Spec</b>	1			
		<p>mDIXON Body Fat Quant specialist enables the production of 3D single breath-hold, whole liver, quantitative fat fraction maps. These maps are delivered by a state of the art mDIXON Quant technology consisting of a 3D mDIXON sequence with multiple echo times (4), accounting for T1 bias, correcting for T2* decay and relying on a multi-peak fat model. Next to the Fat fraction maps, Water, Fat, In-phase, Out-phase and T2* relaxation maps can be produced. The maps can be visualized in color, with quantification bar, in the MR console viewing environment or on Intellispace Portal.</p> <p><i>Note: mDIXON Body Specialist is a pre-requisite for mDIXON Body Fat Quant Specialist.</i></p>				
4	**FDS2164	<b>HA FlexTrak</b>	1			
		<p>Dockable patient transport system for simplified patient preparation, handling and transportation from preparation room to the MR scanner, without repositioning the patient.</p> <ul style="list-style-type: none"> <li>• HA: Height-adjustable to facilitate easy patient transfer</li> <li>• Lightweight, easy to maneuver FlexTrak dockable patient transport system docks and undocks quickly and easily with patient support and table top. Docking is possible from both sides.</li> <li>• Patient and coils can be prepared outside the MR room. No need to remove coils or to reposition patients.</li> <li>• Integrated coil connections on table and FlexConnect connectors for efficient patient management and rapid evacuation.</li> </ul>				

**100154 Diamond Select Ingenia 1.5T**

**OPTIONS**

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Line #	Part #	Description	Qty	Each	Price	Initial
		<ul style="list-style-type: none"> <li>• Easy to use foot pedal locks wheel direction during transport or brakes the FlexTrak while standing still.</li> <li>• When the FlexTrak is positioned and locked against a wall, an adjustable side-rail can be used to prevent a patient from falling.</li> <li>• Optional second FlexTrak offers economical solution to allow improved throughput.</li> <li>• 250 kg / 550 lb capacity</li> </ul>				
5	**NDSF176	<b>FlexCaddy</b>	1			
		<p>Coil storage cart which stores dStream coils and accessories to enhance workflow for a large range of clinical applications. Includes:</p> <ul style="list-style-type: none"> <li>• IV pole</li> <li>• Storage for                             <ul style="list-style-type: none"> <li>• 2x Anterior coils</li> <li>• 1x Head Top / other coil</li> <li>• 1x HeadNeck Top / other coil</li> <li>• 1x Base coil</li> <li>• Accessories</li> </ul> </li> </ul>				
6	**989801271129	<b>MEDRAD MRXperion MR Injection System</b>	1			
		<p>The MEDRAD MRXperion Injection System is a syringe-based fluid delivery system indicated for delivery of contrast media and saline during MR procedures. It is intended to be used for the specific purpose of injecting intravenous MR contrast media and saline into the human vascular system for diagnostic studies in magnetic resonance imaging (MRI) applications with MRI scanners that have a magnetic field strength between 0.7 Tesla and 3.0 Tesla. Only trained healthcare professionals are intended to operate this device.</p> <p>The system consists of basic components that communicate by a direct fiber optic connection. The Control Room Unit (CRU) contains the user interfaces (computer touch screen display with Pod) that contain controls used to program and control the injection system. Both also have individual power supplies that require AC power. These components are MR unsafe and should not be taken into the scanner room.</p> <p>The Scan Room Unit (SRU), is positioned near the magnet bore. The Scan Room Unit is MR Conditional device and should be located, installed, and operated per the specifications. It contains the integrated injector pedestal base, IV pole and head with display and controls. The SRU Power Supply is provided to power the Scan Room Unit. The SRU Power supply is MR Conditional device and should be located, installed, and operated per the specifications. The power supply can be mounted outside the scan room with the optional penetration panel filter kit or installed in the scan room at the maximum distance away from the bore or exterior scanner surface. It must be installed no closer than a minimal distance from the scanner as called out in the room layout diagram. It requires AC power and should be positioned to allow AC connection without using any AC power strips.</p>				

**100309 Upgrades MR - Serial # 70699**

**System Type:** Upgrade  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a ninety (90) day product warranty. All other part numbers are third (3rd) party items.

**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date.  
Any rigging costs are the responsibility of the Purchaser.

**Additional Terms:**

Line #	Part #	Description	Qty
1	**NMRF067	<b>ScanWise Implant</b> ScanWise Implant is a user interface with guidance that simplifies scanning patient with MR Conditional implants. It allows you to enter the implant's MR Conditional values only once and as specified by the implant manufacturer. It will automatically adjust all scan and pre-scan parameters to meet the implant conditional values entered by the operator. ScanWise implant makes your MR scanner adhere to the entered implant conditions throughout the whole examination.	1
2	**NMRF080	<b>3D SpineVIEW</b> 3D SpineVIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes.	1

NET PRICE



Buying Group: VIZIENT SUPPLY LLC

Contract #: XR0393 MRI

Add'l Terms:

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

Price above does not include any applicable sales taxes.

The preliminary delivery request date for this equipment is: \_\_\_\_\_.

If you do not issue formal purchase orders indicate by initialing here \_\_\_\_\_.

Tax Status:

Taxable \_\_\_\_\_ Tax Exempt \_\_\_\_\_

If Exempt, please indicate the Exemption Certification Number: \_\_\_\_\_, and attach a copy of the certificate.

Delivery/Installation Address:

Invoice Address:

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Contact Phone #:

Contact Phone #:

\_\_\_\_\_

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Purchaser approval as quoted:

Date:

\_\_\_\_\_

\_\_\_\_\_

Title:

\_\_\_\_\_

This quotation is signed and accepted by an authorized representative in acknowledgement of the system configuration, terms and conditions stated herein.



100309 Upgrades MR - Serial # 70699

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
1	**989801256064	MR Additional Training 24 Hours OnSite	1			

Clinical Education Specialist will provide twenty-four (24) hours of MR OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information.

Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

# PHILIPS PRODUCT WARRANTY

## MAGNETIC RESONANCE SYSTEMS (MR)

This product warranty document is an addition to the terms and conditions set forth in the quotation to which this warranty document is attached. Unless specifically listed below, this warranty does not apply to replacement parts. The terms and conditions of the quotation are incorporated into this warranty document. The capitalized terms herein have the same meaning as set forth in the quotation.

### 1. Twelve (12) Month System Warranty.

1.1 Philips warrants to Customer that the Philips Magnetic Resonance System (System) will perform in substantial compliance with its performance specifications, in the documentation accompanying the System, for a period of twelve (12) months after completion of installation or availability for first patient use, whichever occurs first.

1.2 If Coils, Chiller Units, Power Conditioner Units, or Injector Units are purchased from Philips, they will be covered by the special warranty set forth below.

### 2. Planned Maintenance.

2.1 During the warranty period, Philips' service personnel will schedule planned maintenance visits, in advance, at a mutually agreeable time on weekdays, between 8:00 A.M. and 5:00 P.M. local time, excluding Philips observed holidays.

### 3. System Options, Upgrades or Accessories.

3.1 Any Philips authorized options, upgrades, or accessories for the System which are delivered and/or installed on the System during the original term of the System warranty shall be subject to the same warranty terms contained in the first paragraph of this warranty, except that such warranty shall expire on the later of: (a) upon termination of the initial twelve (12) month warranty period for the System on which the option or accessory is installed, b) after ninety (90) days for parts only from the date of installation.

### 4. RF Surface Coils

4.1 The System can be purchased with optional RF Surface Coils ("coils").

4.2 If Coils are purchased with the System, Philips will include the Coils under the System warranty.

4.3 Third party Coils will not be covered under this warranty.

### 5. Chiller Unit, Power Conditioner, or Injector Unit

5.1. The System can be purchased with an optional Chiller Unit, Power Conditioner Unit or Injector Unit ("Units").

5.2 If any of these Units are purchased with the System, Philips will include these Units under the twelve (12) month System warranty as an Original Equipment Manufacturer (OEM) warranty pass through.

5.3 Authorized representatives of the OEM will perform warranty service on each of these Units.

### 6. Magnet Maintenance Service

6.1 During the warranty period, Philips personnel will schedule provide magnet maintenance service.

6.2 The liquid helium (cryogens) levels are monitored and the boil off rate is calculated remotely and maintained within Philips remote services.

6.3 When necessary, cryogens are transferred from Dewars (shipping containers) to the System magnet.

6.4 If cryogen supplies are required, they will be provided to maintain the magnet at operating temperature after delivery and initial cool down.

### 7. System Software and Software Updates

7.1 The software provided with the System will be the latest version of the standard software available for that System as of the ninetieth (90th) day prior to the date the System is delivered to Customer.

7.2 Updates to standard software for the System that do not require additional hardware or equipment modifications will be performed as a part of normal warranty service during the term of the warranty.

7.3 All software is and shall remain the sole property of Philips or its software suppliers.

7.4 Use of the software is subject to the terms of a separate software license agreement.

7.5 No license or other right is granted to Customer or to any other party to use the software except as set forth in the license agreements.

7.6 Any Philips maintenance or service software and documentation provided with the System and/or located at Customer's premises, is intended solely to assist Philips and its authorized agents to install and to test the System, to assist Philips and its authorized agents to maintain and to service the System under a separate support agreement with Customer, or to permit Customer to maintain and service the System.

7.7 Customer agrees to restrict the access to such software and documentation to Philips employees, those of its authorized agents, and to its authorized employees of Customer only.

### 8. Warranty Limitations

8.1 Philips sole obligations and Customer's exclusive remedy under any product warranty are limited, at Philips option, to the repair or the replacement of the product or a portion thereof, within thirty (30) days after receipt of written notice of such material breach from Customer ("Product Warranty Cure Period") or, upon expiration of the Product Warranty Cure Period, to a refund of a portion of the purchase price paid by the Customer upon Customer's request.

8.2 Any refund will be paid, to the Customer when the product is returned to Philips.

8.3 Warranty service outside of normal working hours (i.e. 8:00 AM to 5:00 PM, Monday through Friday, excluding Philips Observed holidays), will be subject to payment by Customer at Philips standard service rates.

8.4 This warranty is subject to the following conditions: the product (a) is to be installed by authorized Philips representatives (or is to be installed in accordance with all Philips installation instructions by personnel trained by Philips); (b) is to be operated exclusively by duly qualified personnel in a safe and reasonable manner in accordance with Philips written instructions and for the purpose for which the products were intended; and (c) is to be maintained and in strict compliance with all recommended and scheduled maintenance instructions provided with the Product.

8.5 Philips' obligations under any product warranty do not apply to any product defects resulting from: improper or inadequate maintenance or calibration by the Customer or its agents; Customer or third party supplied interfaces, supplies, or software including without limitation loading of operating system patches to the Licensed Software and/or upgrades to anti-virus software running in connection with the Licensed Software without prior approval by Philips; use or operation of the product other than in accordance with Philips' applicable product specifications and written instructions; abuse, negligence, accident, loss, or damage in transit; improper site preparation; unauthorized maintenance or modifications to the product; or, viruses or similar software interference resulting from connection of the product to a network.

8.6 Philips does not provide a warranty for any third party products furnished to Customer by Philips under this quotation; however, Philips shall use reasonable efforts to extend to Customer the third party warranty for the product.

8.7 The obligations of Philips described herein and in the applicable product-specific warranty document are Philips only obligations and Customer's sole and exclusive remedy for a breach of a warranty.

8.8 Customer is to notify Philips immediately in the event the product at any time fails to substantially meet its printed performance specifications; and only Philips personnel acting under the direct supervision of Philips service management are to perform all maintenance of the cryogen subsystem (including replenishment of cryogens).

8.9 THE WARRANTIES SET FORTH HEREIN AND IN PHILIPS WARRANTY DOCUMENT WITH RESPECT TO A PRODUCT (INCLUDING THE SOFTWARE PROVIDED WITH THE PRODUCT) ARE THE ONLY WARRANTIES MADE BY PHILIPS IN CONNECTION WITH THE PRODUCT, THE SOFTWARE, AND THE TRANSACTIONS CONTEMPLATED BY THE QUOTATION, AND ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, WHETHER WRITTEN, ORAL, STATUTORY, EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF NON-INFRINGEMENT MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

8.10 Philips may use refurbished parts in the manufacture of the products, which are subject to the same quality control procedures and warranties as for new parts.

### 9. Remote Services Network ("RSN").

9.1 Customer will (a) provide Philips with a secure location at Customer's premises to store one Philips remote services network router and provide full and free access to this router, (or a Customer-owned router acceptable to Philips) for connection to the equipment and to Customer's network; or (b) provide Philips with outbound internet access over SSL; at all times during the warranty period provide full and free access to the equipment and the Customer network for Philips use in remote servicing of the product, remote assistance to personnel that operate the products, updating the product and regular uploading of products data files (such as but not limited to error logs and utilization data for improvement of Philips products and services and aggregation into services).

9.2 Customer's failure to provide such access will constitute Customer's waiver of the scheduled planned maintenance service and will void support or warranty coverage of product malfunctions until such time as planned maintenance service is completed or RSN access is provided.

9.3 Customer agrees to pay Philips at the prevailing demand service rates for all time spent by Philips service personnel waiting for extended coverage.

### 10. Transfer of System

10.1 In the event Customer transfers or relocates the System, all obligations under this warranty will terminate unless Customer receives the prior written consent of Philips for the

transfer or relocation.

10.2 Upon any transfer or relocation, the System must be inspected and certified by Philips as being free from all defects in material, software and workmanship and as being in compliance with all technical and performance specifications.

10.3 Customer will compensate Philips for these services at the prevailing service rates in effect as of the date the inspection is performed.

10.4 Any System which is transported intact to pre-approved locations and is maintained as originally installed in mobile configurations will remain covered by this warranty.

**11. Limitation of Liability**

11.1 THE TOTAL LIABILITY, OF ANY, OF PHILIPS AND ITS AFFILIATES FOR ALL DAMAGES AND BASED ON ALL CLAIMS, WHETHER ARISING OR RELATING TO FROM BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, INDEMNITY, STRICT LIABILITY OR OTHER TORT, OR OTHERWISE, ARISING FROM A PRODUCT, LICENSED SOFTWARE, AND/OR SERVICE IS LIMITED TO THE PRICE PAID HEREUNDER FOR THE PRODUCT, LICENSED SOFTWARE, OR SERVICE GIVING RISE TO THE LIABILITY.

11.2 THIS LIMITATION SHALL NOT APPLY TO:

(a) THIRD PARTY CLAIMS FOR DIRECT DAMAGES FOR BODILY INJURY OR DEATH TO THE EXTENT CAUSED BY PHILIPS NEGLIGENCE OR PROVEN PRODUCT DEFECT;

(b) CLAIMS OF TANGIBLE PROPERTY DAMAGE REPRESENTING THE ACTUAL COST TO REPAIR OR REPLACE PHYSICAL PROPERTY TO THE EXTENT CAUSED BY PHILIPS NEGLIGENCE OR PROVEN PRODUCT DEFECT;

(c) OUT OF POCKET COSTS INCURRED BY CUSTOMER TO PROVIDE PATIENT NOTIFICATIONS, REQUIRED BY LAW, TO THE EXTENT SUCH NOTICES ARE CAUSED BY PHILIPS UNAUTHORIZED DISCLOSURE OF PHI; and;

(d) FINES/PENALTIES LEVIED AGAINST CUSTOMER BY GOVERNMENT AGENCIES CITING PHILIPS UNAUTHORIZED DISCLOSURE OF PHI AS THE BASIS OF THE FINE/PENALTY, ANY SUCH FINES OR PENALTIES SHALL CONSTITUTE DIRECT DAMAGES.

**12. Disclaimer**

12.1 IN NO EVENT SHALL PHILIPS OR ITS AFFILIATES BE LIABLE FOR ANY INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA OR THE COST OF SUBSTITUTE PRODUCTS OR SERVICES WHETHER ARISING FROM BREACH CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, INDEMNITY, STRICT LIABILITY OR OTHER TORT.

**13. FORCE MAJEURE**

13.1 Philips and Customer shall each be excused from performing its obligations arising from any delay or default caused by events beyond its reasonable control including, but not limited to: acts of God, acts of third parties, acts of the other party, acts of any civil or military authority, fire, floods, war, embargoes, labor disputes, acts of sabotage, riots, accidents, delays of carriers, subcontractors or suppliers, voluntary or mandatory compliance with any government act, regulation or request, shortage of labor, materials or manufacturing facilities.

Philips system specifications are subject to change without notice Document Number 4535 983 03237 999

# Non Disclosure Agreement for Philips Confidential Pricing Information

The parties specified below agree to the following terms:

**A. Philips**

Name	Philips Healthcare, a division of Philips Electronics North America Corporation
Address	22100 Bothell-Everett Highway, Bothell, WA 98021 United States of America

**B. Company**

Name	GREENVILLE MRI LLC
Address	2200 BEASLEY DR GREENVILLE, NC 27834-2844

**C. Confidential Information**

Authorized Purpose	To evaluate Philips' confidential information relating to pricing for imaging equipment ("Pricing") in connection with the potential purchase of such imaging equipment.
Period	Begins on the date Pricing is first disclosed and continues for 5 years from date Pricing is last disclosed.

**D. Philips Contact**

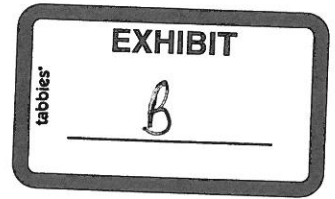
Name	Bethann Griffith-Subik
Title	
Telephone	(919) 677-9046
Fax	(919) 677-9047
e-mail	
Signature	

**Company Contact**

Name	
Title	
Telephone	
Fax	
e-mail	
Signature	

1. The following terms and conditions (the "Agreement") apply to Pricing disclosed by Philips and its Affiliates ("Philips") to Company and its Affiliates ("Company"), in connection with the Authorized Purpose.
  - (a) Subject to Philips' prior written consent, Company may disclose, or request that Philips disclose, Pricing to Company's Affiliates that need to know the Pricing for carrying out the Authorized Purpose, provided they are advised of and agree to be bound by this Agreement. Company is responsible for any breach of this Agreement by its Affiliates.
  - (b) An Affiliate is any corporation, company, or other entity, that: (i) is under the Control of a party hereto; or (ii) has Control of a party hereto; or (iii) is under common Control with a party hereto. For this purpose "Control" means that more than fifty percent (50%) of the controlled entity's shares or ownership interest representing the right to make decisions for such are owned or controlled, directly or indirectly, by the controlling entity.
2. Philips may disclose Pricing to Company with respect to the Authorized Purpose in writing, orally, or otherwise. All information is assumed to be Pricing, and confidential, if the confidential or proprietary nature is reasonable under the circumstances.
3. All Pricing disclosed by Philips shall remain Philips' the property. Company does not, by implication, estoppel, or otherwise, acquire any intellectual property right, title, or ownership, nor a license to any such intellectual property right, with respect to any Pricing disclosed by Philips hereunder.  
 ALL PRICING IS PROVIDED ON AN "AS IS" BASIS, WITHOUT ANY WARRANTY WHATSOEVER. PHILIPS SHALL HAVE NO LIABILITY WHATSOEVER RESULTING FROM THE USE OF THE INFORMATION PROVIDED.
4. Company shall:
  - (a) not use the Pricing for any purpose other than the Authorized Purpose;
  - (b) not disclose the Pricing to any third party;
  - (c) protect the Pricing against disclosure in the same manner and with the same degree of care with which Company protects its own confidential information but not less than a reasonable degree of care; and
  - (d) limit circulation of the Pricing to Company's employees as have a need to know in connection with the Authorized Purpose.
 These obligations shall survive the termination of this Agreement. Philips may terminate this Agreement at any time by means of a written notice to Company. Company shall return to Philips, or certify destruction of, all Pricing, immediately upon termination or expiration of this Agreement.
5. Information disclosed by Philips to Company pursuant to this Agreement shall not be confidential to the extent that the information:
  - (a) is or becomes part of the public domain without violation of this Agreement or any other obligation of confidentiality;
  - (b) is known by Company prior to disclosure by Philips;
  - (c) is lawfully obtained by Company from a third party without any breach of confidentiality or violation of law; or
  - (d) is developed by Company completely independently of any such disclosure by Philips.
6. If Company is required, pursuant to administrative or judicial action or subpoena, to disclose the Pricing, Company shall use its best efforts to maintain the confidentiality of the Pricing, e.g. by asserting in such action any applicable privileges. Immediately after gaining knowledge or receiving notice of such action or subpoena, Company shall notify Philips and give Philips the opportunity to seek any other legal remedies so as to maintain such Pricing in confidence, including a reasonable protective order.
7. Company may not transfer or assign any or all of its rights and/or obligations or delegate the performance of any or all of its obligations under this Agreement, directly or indirectly, through acquisition, merger or otherwise, without the prior written consent of Philips. Any transfer, assignment or delegation in contravention of the foregoing shall be void.
8. Company shall not disclose, export or release the Pricing in contravention of any applicable laws or regulations.
9. This Agreement shall be governed and construed in accordance with the laws of the State of New York, without giving effect to its conflict of laws provisions.
10. This Agreement contains the entire understanding of the parties and supersedes any previous understandings or agreements with respect to the subject matter hereof. This Agreement may be amended only in writing signed by authorized representatives of each party.

Pricing NDA ver1 – 8/9/07



October 25, 2017

Mrs. Jenny Myers  
Eastern Radiologists  
Greenville, NC

**RE: Renovations to MRI Room #1 for new Philips Ingenia 1.5T Omega**

Jenny;

We propose to construct the above referenced project per the following:

**CONSTRUCTION:**

Division 01 – General Requirements

- Architectural and engineering.
- Keep a current and up to date copy of the construction documents marked with red-lines for all changes that occur during the work.
- Provide all required shop drawings and submittals, and keep a copy of all approved shop drawings and submittals in the job site office. Turn over all approved files as well as all appropriate operation and maintenance manuals to the Owner upon completion of the project.
- Provide all necessary samples and test panels.
- Project supervision.
- Provide all necessary permits and pay for all inspection fees.
- Pay all applicable taxes on the work.
- Provide all overtime labor as required to complete the project within the agreed upon schedule.
- Standard job site work hours are 7:00 AM to 5:00 PM. Permission to work at the site during any periods other than standard work hours must be approved in advance, in writing.
- HEPA filters and infection control procedures as required by the facility. Maintain negative pressure in the construction area as required by the facility.
- Provide for daily broom cleaning of the job site and debris removal and appropriate disposal (including any Philips equipment containers and packing materials). Use of walk off mats as required by the facility. The entire job site shall be thoroughly cleaned upon completion of the work, prior to turnover to the customer.
- The storage, staging, and delivery of materials to the job site shall be as follows: Facility representative.

Mrs. Jenny Myers

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October 25, 2017

- Parking for construction workers is restricted to: Direction by facility representative.
- Compliance with the Owner's security regulations and dress codes is required.
- Use of the Owner's facilities is limited to: Direction by facility representative.
- A clean unrestricted access route to the project site is to be provided by the customer.
- This proposal assumes that all of the on-site work will be accomplished in one phase, so that once work begins on site it will continue until all work has been completed.
- Provide an on-site Dumpster as necessary.

#### Division 02 – Existing Conditions

- The installation of code compliant temporary partitions to secure areas, control dust, protects adjacent areas and equipment as required is included.
- The demolition and appropriate removal and disposal of existing flooring and ceiling as required accommodating the new work. All items that are intended to be salvaged by the Owner will be so noted and removed by the Owner prior to the start of the demolition work.
- This scope of work does not include the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the Owner will be notified, and the work will again proceed after the Owner has removed all of the hazardous material from the job site.
- Provide adequate dust protection as necessary. (Including air scrubbers and hepa filters.)

#### Division 03 – Concrete

- Furnish labor and material to install 10' x 20' concrete pad for new chiller and condenser.

#### Division 04 – Masonry- N/A

#### Division 05 – Metals – N/A

#### Division 06 – Wood, Plastics, and Composites

- Furnish labor and material to relocate existing Casework.

#### Division 07 – Thermal and Moisture Protection

- Furnish labor and material to install temporary dry-in wall with door at magnet access.

Mrs. Jenny Myers  
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Division 08

- Furnish labor and material to remove existing store front window and store for reinstallation. Reinstall window blinds.

Division 09 – Finishes

- Furnish labor and material to install new 2x2 acoustical ceiling with oval ceiling over magnet. (Aluminum grid.)
- Furnish labor and material to install new Luxury Vinyl Plank flooring with 4” base cove.
- Furnish labor and material to patch and repair sheetrock walls and prep for paint.
- Furnish labor and material to paint.

Division 10 – Specialties-N/A

Division 11 – Equipment – N/A

Division 12 – Furnishings – N/A

Division 13 – Special Construction

- Preliminary RF attenuation testing of the existing shielding to evaluate the condition of the enclosure.
- Remove RF windows, panels and framing members at magnet entry.
- Remove existing RF filter tunnel and RF panel.
- Modify wall to accept new Philips filter tunnel.
- Provide and install RF filter tunnel to accept new Philips System Filter Box.
- Remove waveguides used for Philips Patient Ventilation, chiller lines and RF seal openings.
- Remove RF shielded door. Provide and install new outswing RF shielded door.
- Reinstall RF windows, panels and framing members at magnet entry wall.
- Install Philips System Filter Box.
- Perform final RF attenuation test.

Division 14 – Conveying Equipment – N/A

Division 21 – Fire Suppression – N/A

Division 22 – Plumbing-N/A

Mrs. Jenny Myers  
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October 25, 2017

Division 23 – Heating, Ventilating, and Air Conditioning

- Remove existing chilled water supply and return lines.
- Install new 2" chilled water supply and return. Insulate with aluminum jacket.
- Set new chiller supplied by Philips. Purge and fill with propylene glycol.
- Chiller and quench vent provided by Philips.

Division 26 – Electrical

- Replace 100 amp breaker with new 80 amp breaker and serve load side unit.
- Rework and purchase new cable tray to replicate existing.
- Provide and install new 50 amp three phase feeder for the chiller with load side connections.
- Use existing trough in Control Room.
- Use existing floor trough.
- No new outlets required.
- Grounding of cable tray.
- Provide and install eight (8) new LED recessed can lights with dimmer switch.

Division 27 – Communications – N/A

Division 28 – Electronic Safety and Security – N/A

Division 312 – Earthwork – N/A

Division 32 – Exterior Improvements – N/A



## **EXCLUSIONS**

- All items not included in the scope of work must be added to this section. Bold faced items cannot be excluded.
- This scope of work does not include the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the Owner will be notified, and the work will again proceed after the Owner has removed all of the hazardous material from the job site.
- Additional HVAC system components or capacity other than what is included in the description of work above.
- Repair or replacement of existing HVAC system components other than what is included in the description of work above.
- Conduit, wiring, connections and programming to the existing or future facility Building/Energy Management System is not included and is the responsibility of the customer.
- Physicist provided radiation shielding design or post renovation testing.
- Floor or ceiling mounted radiation shielding.
- Work in a bio-hazardous, radioactive, toxic or other high risk environment.
- Work involving emergency power other than what is included in the description of work above.
- New utility power services, other than what is included in the description of work above.
- Networking to other modalities, other than what is included in the description of work above.
- Work outside of normal working hours other than what is included in the description of work above.
  - Removal/relocation of existing equipment is not included other than what is included in the description of work above.
  - The services of a professional interior designer are not included, nor are any furnishing, furniture, artwork, window treatments, miscellaneous accessories, etc.
  - Vibration testing of the site is not included, nor is any vibration remediation work.
  - Any construction due to State or Local code upgrades.
  - Any upgrades to existing power conditions.
  - Any work involving structural, acoustical ceiling in control room and toilet and sprinkler & fire protection.
  - Any work involving pre-action sprinkler system.
  - Any work involving chiller cold head by-pass.
  - Any work involving steel shielding.
  - Any work involving DCLC.
  - Any work involving magnet rigging.
  - Any work involving major utilities underneath concrete slab such as electrical, plumbing, etc.
  - Emergency power, generator, automatic transfer switch, and/or UPS system other than specified.
  - Any other work or service other than those specified in the Scope of Work.

Mrs. Jenny Myers  
Page 6  
October 25, 2017

We propose to construct this work for the amount of **One Hundred Eighteen Thousand Six Hundred Dollars. (\$118,600.00)**

Please do not hesitate to contact me if you should have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Bobby Evans", with a long horizontal line extending to the right.

Bobby Evans  
Vice President

## AFFIDAVIT OF WALTER LINDSTRAND

Walter Lindstrand, being duly sworn, does hereby depose and say as follows:

1. I am Chief Operating Officer of Greenville MRI, LLC ("GMRI").
2. I am familiar with the books and records of GMRI as they relate to the matters described below.
3. I have reviewed and am familiar with the certificate of need ("CON") law contained in Article 9 of Chapter 131E of the North Carolina General Statutes.
4. The matters described below are true of my own knowledge, except those matters stated upon information and belief, and, as to those, I believe them to be true.
5. I am directly and actively involved in GMRI's proposed purchase of a new Philips Ingenia 1.5T magnetic resonance imaging ("MRI") scanner (the "Replacement Equipment") to replace one of its two existing MRI scanners, a 2005 Philips Achieva 1.5T MRI scanner, serial # 20000 (the "Existing Equipment"). owned and used by GMRI in its diagnostic imaging center located at 2101 W. Arlington Boulevard, Greenville, Pitt County, North Carolina.
6. Attached hereto as Exhibit 1 is a copy of the vendor's Quotation for the Replacement Equipment (with the amount of the purchase price redacted for confidentiality purposes).
7. Attached hereto as Exhibit 2 is a copy of the contractor's Proposal for a not-to-exceed cost of \$118,600.00 for renovations essential to making operational the Replacement Equipment.
8. Except as contemplated in Exhibit 1 and Exhibit 2, and except for Ward and Smith, P.A.'s attorneys' fees associated with this request (which are estimated to be no more than \$5,000.00), no other expenditure is necessary in order to acquire or make operational the Replacement Equipment.
9. The combined purchase price of the Replacement Equipment, cost of the renovations essential to making operational the Replacement Equipment, and attorneys' fees is well below \$2,000,000.00.
10. The Existing Equipment is currently in use and has not been taken out of service.

11. The Replacement Equipment has the same technology as the Existing Equipment, although the Replacement Equipment may possess expanded capabilities due to technological improvements.

12. The Replacement Equipment is functionally similar and is used for the same diagnostic or treatment purposes as the Existing Equipment and is not used to provide a new health service.

13. The acquisition of the Replacement Equipment will not result in more than a ten percent (10%) increase in patient charges or per procedure operating expenses within the first twelve (12) months after the Replacement Equipment is acquired.

14. The Replacement Equipment will be purchased not less than three (3) years after the acquisition of the Existing Equipment.

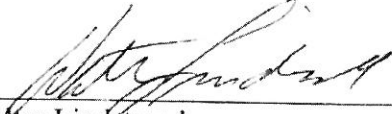
15. The Replacement Equipment is not capable of performing procedures that could result in the provision of a new health service or type of procedure that has not been provided with the Existing Equipment.

16. The Existing Equipment is owned, not leased, by GMRI.

17. The Replacement Equipment is required, because of technological advances during the 12 years since the Existing Equipment was manufactured. In addition, the Existing Equipment has reached the end of its service life as determined by the vendor, in that the vendor no longer will be supporting the Existing Equipment with software upgrades and the acquisition of replacement parts likely will become an issue in the near future.

*(Signature is on the following page.)*

Affiant says nothing further.

  
\_\_\_\_\_  
Walter Lindstrand

STATE OF NORTH CAROLINA  
COUNTY OF PITT

Sworn to and subscribed before me,

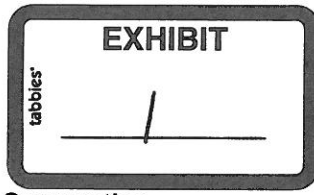
this 9th day of November, 2017.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:

10/31/2020





**PHILIPS HEALTHCARE**  
A division of Philips Electronics North America Corporation  
22100 Bothell Everett Highway  
P.O. Box 3003  
Bothell, Washington 98041-3003

# PHILIPS

<b>Quotation #:</b> 1-1L8U60G	<b>Rev:</b> 1	<b>Effective From:</b> 19-May-17	<b>To:</b> 19-May-17
<b>Presented To:</b> GREENVILLE MRI LLC 2200 BEASLEY DR GREENVILLE, NC 27834-2844  Tel:  <b>Alternate Address:</b>	<b>Presented By:</b> Bethann Griffith-Subik <b>Account Manager</b>  Amy Morrow <b>Regional Manager</b>	<b>Tel:</b> (919) 677-9046 <b>Fax:</b> (919) 677-9047  <b>Tel:</b> (828) 553-3118 <b>Fax:</b>	
<b>Date Printed:</b> 19-May-17			
<b>Submit Orders To:</b> 22100 BOTHELL EVERETT HWY BOTHELL WA 98021  Tel: (888) 564-8643  Fax: (425) 458-0390			

This quotation contains confidential and proprietary information of Philips Healthcare, a division of Philips Electronics North America Corporation ("Philips") and is intended for use only by the customer whose name appears on this quotation. It may not be disclosed to third parties without the prior written consent of Philips.

**IMPORTANT NOTICE:** Health care providers are reminded that if the transactions herein include or involve a loan or discount (including a rebate or other price reduction), they must fully and accurately report such loan or discount on cost reports or other applicable reports or claims for payment submitted under any federal or state health care program, including but not limited to Medicare and Medicaid, such as may be required by state or federal law, including but not limited to 42 CFR 1001.952(h).

## Quote Solution Summary

Line #	Product	Qty	Price
	100154 Diamond Select Ingenia 1.5T	1	[REDACTED]
	100309 Upgrades MR	1	[REDACTED]
Equipment Total:			[REDACTED]

## Solution Summary Detail

Product	Qty	Each	Monthly	Price
100154 Diamond Select Ingenia 1.5T	1	[REDACTED]		[REDACTED]
<b>Buying Group:</b> VIZIENT SUPPLY LLC	<b>Contract #:</b> XR0393 MRI			

**Add'l Terms:**

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

**Payment Terms: 0% Down, 80% Upon Delivery, 20% Due When the Product is Available for First Patient Use, Net due 30 days from date of invoice**

100309 Upgrades MR	1	[REDACTED]		[REDACTED]
<b>Buying Group:</b> VIZIENT SUPPLY LLC	<b>Contract #:</b> XR0393 MRI			

**Add'l Terms:**

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

**Payment Terms: 0% Down, 80% Upon Delivery, 20% Due When the Product is Available for First Patient Use, Net due 30 days from date of invoice**

## Quote Summary

100154 Diamond Select Ingenia 1.5T

Qty	Product
1	NNAX049 DS Ingenia1.5T Omega Q1 2017
1	NDSE016 no seismic anchoring required
1	NDSE014 other means of transport
1	NDSF153 dS Torso 1.5T
1	NDSF161 dS Knee 16ch 1.5T
1	NDSF261 dS Breast 7ch 1.5T
1	NDSE773 MammoTrak Biopsy Kit 1.5T
1	NDSF163 dS FootAnkle 8ch 1.5T
1	NDSF165 dS Shoulder 8ch 1.5T
1	NDSF099 SmartExam Breast
1	NDSF319 AutoVoice
1	NDSF323 mDIXON XD FFE Specialist
1	NDSF324 mDIXON XD TSE Specialist
1	NDSF374 ScanWise Implant
1	NDSF379 Black Blood imaging
1	NDSF384 3D NerveVIEW
1	FDS2186 FlexTilt
1	FDS2165 Anterior Coil Frame
1	NDSE004 Stationary
2	989801256069 MR Full Travel Package OffSite
1	NNAF952 MR Chiller
1	SP007 Rigging Charges
1	SP019 Trade in Allowance

### Options

Qty	Product
1	NDSF156 dS Flex L 1.5T
1	NDSF158 dS Flex S 1.5T
1	NDSF059 mDIXON Body Fat Quant Spec
1	FDS2164 HA FlexTrak
1	NDSF176 FlexCaddy
1	989801271129 MEDRAD MRXperion MR Injection System



## Quote Summary

100309 Upgrades MR - Serial # 70699

Qty	Product
1	NMRF067 ScanWise Implant
1	NMRF080 3D SpineVIEW

### Options

Qty	Product
1	989801256064 MR Additional Training 24 Hours OnSite

## 100154 Diamond Select Ingenia 1.5T

**System Type:** Remarketing  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a system 12 Months Warranty unless otherwise indicated. All other parts are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.  
**Additional Terms:**

Line #	Part #	Description	Qty
1	**NNAX049	DS Ingenia1.5T Omega Q1 2017	1

**LIMITED AVAILABILITY BASED UPON RECEIPT OF CONTINGENT FREE ORDER AT THE FACTORY. CURRENT AVAILABILITY OF THIS OFFERING IS 300 DAYS ARO, SUBJECT TO AVAILABILITY AND PRIOR SALE.**

**NOTE: IF CUSTOMER IS UNABLE TO ACCEPT DELIVERY BY THE ABOVE STATED ARO DATE, THEN PHILIPS MAY DETERMINE A REVISED DELIVERY DATE.**

### Ingenia 1.5T Omega

Ingenia with dStream architecture provides flexible and intelligent tools for faster exams and more consistent scanning, as well as excellent clinical performance for a variety of applications – all while increasing patient comfort. Designed for today and tomorrow, it is a safe investment that will serve your needs well into the future.

The R5 system software supports a new generation of clinical options for head, neck, spine, MSK and body imaging. In addition, R5 brings important improvements to the scanner GUI for better control and usability throughout the MR exam, including:

- Smart conflict management for improved workflow
- Selective archiving for better control of archiving & export
- Combined accession numbers for improved scan efficiency during procedure based billing
- AutoSPAIR, software controlled SPAIR delay time for consistent fat suppression
- Increased patient database image bulk storage capacity to >= 250GB
- Patient specific safety protocols with SAR/PNS management

At the heart of the Ingenia is the new dStream architecture. dStream comprises:

- DirectDigital RF receive technology, which samples the MR signal directly in the RF coil on the patient.
- FlexStream workflow, which increases system versatility and throughput
- EasyExpand, which enables plug and play expansion of clinical capabilities without major upgrades

Philips Ingenia significantly improves MR image clarity, speed and expandability.

- Clarity: By digitizing the signal directly on the patient, dStream captures image data where the signal is at its purest.
- Speed: Patient and coil handling have never been easier: flexible exam setup to meet each patient's unique situation, simplified coil changeover and optimal quality for any exam.

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Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>Expandability: The number of channels is determined by the coil, rather than limited by the system. This makes the MRI system forward-compatible to easily access emerging applications like body and cardiac and new enhancements for established applications like neuro and musculoskeletal imaging.</li></ul>	

### **dStream architecture**

Unique digital broadband MR architecture capturing the purest MR signal combined with enhanced workflow and ease of use to provide increased SNR and greater efficiency in your daily operations. In addition the number of channels is no longer determined by the MR system.

- Up to 40% greater signal-to-noise ratio (DirectDigital)
- As much as 30% improvement in throughput (FlexStream)
- Easy expandability of clinical capabilities without the need for major system upgrades (EasyExpand)

### **Xtend design**

System design optimized not only to provide a 70cm wide bore, but also to provide optimum quality and performance for imaging even the largest patients. Industry-leading magnet, gradient and system body coil designs provide the largest field-of-view for a 70cm system. Xtend offers the best combination of magnet homogeneity and gradient performance over a 55 cm FOV.

- Image eyes-to-thighs in as few as 2 stations
- Excellent large FOV and off-center imaging, ideal even for large patients
- Increased image accuracy for large FOV and multi-station exams

### **Magnet system**

- Xtend ultra-large up to 55 cm field-of-view combined with a 70cm bore system, enabling uncompromised coverage and imaging of large patients.
- Actively-shielded, lightweight design (<3300 kg) and compact fringe field (2.4 x 3.8 m) footprint for easy siting.
- Ultra compact patient-friendly magnet design - only 1.5m in length
- Best-in-class magnet homogeneity (1.8 ppm / 50 x 50 x 45 cm V-RMS) for excellent image quality, off-center imaging and fat suppression.
- Superconducting screening coils to reduce magnetic field susceptibility caused by moving external ferrous objects.
- HeliumSave zero boil-off technology for zero helium consumption (0 l/hr) under regular scanning conditions.
- Side turret design for easy installations even with low ceiling and difficult access

### **Gradient system**

#### **Omega Gradients**

High-performance gradients specifically designed for a wide bore magnet. Omega provides a high linearity and maximum peak and slew rate over the entire imaging field of view.

- Gradients with peak amplitude up to 33 mT/m (57 mT/m effective), peak slew rate up to 120 mT/m/ms (208 mT/m/ms effective). All specifications are on axis (x, y and z).

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• Superb linearity (&lt; 1.4% over 50 cm FOV) to improve geometric and diffusion accuracy, and to maximize resolution, even at the edges of the field-of-view.</li><li>• State-of-the-art water-cooled gradient coil and solid-state amplifier for high fidelity and 100% duty cycle.</li><li>• Non-resonant gradient design allows flexible generation of any type of gradient waveform.</li><li>• The integrated force-balanced design of the gradient coil and magnet reduces vibrations and ensures acoustic noise is minimized.</li><li>• Extremely low eddy currents for short echo times</li><li>• AutoSoftTone further reduces gradient acoustic noise by up to 30 dB (an 86 % reduction in patient-perceived acoustic noise).</li></ul>	

### RF receive: DirectDigital and EasyExpand

DirectDigital: Unique Philips technology that samples the MR signal directly in the RF coil on the patient. The fiber-optic transmission of digital broadband data from the coil to the image reconstructor removes potential noise influences typical with analog pathways.

- Capturing the purest MR signal with up to 40% greater signal-to-noise, enabling higher speed/resolution
- Increased dynamic range (max 187 dB)

DirectDigital technology additionally includes:

- Sub-millisecond TRs and ultra-short TEs
- Real-time imaging control for clinical motion correction:
- navigator-corrections required for free-breathing cardiac techniques
- high-resolution diffusion (i.e., PhaseTrak) with profile updates within 1 ms.
- Real-time control of RF transmission, gradient switching, data acquisition and triggering.

EasyExpand: Inherent design of the dStream architecture, where channels are determined by the coils rather than the system. The MR system becomes channel independent, which means a removal of the number of channels as a system specification. This enables plug-and-play expansion of clinical capabilities.

- Expansion does not require major system upgrades, resulting in lower life cycle costs.

### dS-SENSE

Next generation parallel imaging for the dStream (dS) architecture, which simplifies and speeds up scan setup and enables higher parallel imaging factors for more speed or resolution.

- Includes quick, fully integrated reference scans which are planned automatically.

### RF transmit

- 18 kW Solid-state RF power amplifier that provides ample energy to image large patients.
- RF-SMART technology enables SAR to be effectively managed through balanced system design, and maximizes scanner performance in combination with the application of Philips-unique imaging capabilities such as SENSE, SPAIR, Flip Angle Sweep and RF amplitude control.

### Standard RF receive coils

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Line #	Part #	Description	Qty
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### **dS T/R System Body coil 1.5T**

The integrated dS T/R System Body coil is a transmit/receive system coil which is typically used for RF excitation, but can also be used for imaging various (large) body parts.

- Solid-state quadrature Transmit/Receive technology for improved SAR control and a high signal-to-noise ratio
- DirectDigital sampling in the coil where the MR signal is at its purest
- Excellent homogeneity
- 70 cm aperture

### **dS coil solutions**

dStream (dS) coil solutions provide a full range of clinical solutions with two types of coils:

- Integrated coils combine to provide solutions for multiple applications
- Dedicated coils optimize imaging for a single application

dS coil solutions have been optimized for 3 important characteristics:

- Intrinsic signal-to-noise ratio (DirectDigital)
- Imaging coverage
- Parallel imaging performance

### **dStream Interface**

Allows the connection and digitization of the signal from traditional RF coils\* at the table. The digital signal from the interface is transferred via an optical connection to the reconstructor.

- Connector interface designed for easy connection and automatic release of coil
- Connects traditional coils up to 16 channels

\*Note: Achieva coils are not compatible with dStream interface

### **Workflow / throughput: FlexStream**

FlexStream is hinged upon the unique FlexCoverage Posterior coil that provides neck-to-toe coverage without the need for any manual coil removal or patient repositioning. The FlexCoverage Posterior coil simply combines with other unique dS coils to enable imaging with fewer coils and reduce concerns for coil positioning and patient setup. The optional FlexTrak patient transport system enables easy patient preparation and more efficient use of the MR scanner. FlexTrak solutions can instantly convert your MR system from general purpose use to dedicated advanced clinical use, such as breast imaging, intervention or therapy applications, while ensuring high throughput.

- A much a 30% improvement in throughput
- Easy coil handling through lightweight patient conforming coil design
- Large coverage coils for easier positioning
- Flexible combinations of coils
- Efficient coil usage – more applications with fewer coils
- Unique design allows up to 70% of routine applications without additional coil connections.
- FlexConnect easy to use, single-handed coil connections.

### **FlexCoverage Posterior coil**

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Line #	Part #	Description	Qty
		Posterior coil, used routinely in 60% of all applications, is an integrated coil below the thin table top providing neck-to- toe coverage. This coil does not need to be carried, positioned, connected nor exchanged, thereby enhancing workflow. It is always there when you need it. <ul style="list-style-type: none"><li>• Head-to-toe coverage up to 200 cm* in combination with the base coil</li><li>• FlexConnect coil connection / connectors:</li></ul>	

\* *WholeBody Specialist required*

Single-handed coil connection for fast and easy plugging and unplugging of coils, and for auto-eject with FlexTrak undocking in emergency cases.

The small FlexConnect connectors use advanced fiber-optic connections for carrying digital broadband MR signals.

- Enhanced reliability by eliminating delicate RF pin connections.

### **FlexTrak table top**

Ultra-thin table top that maximizes bore space. Includes coil connections directly on the table top for fast and easy setup.

- Ultra-thin design ensures minimal distance between patient and FlexCoverage Posterior coil for optimal SNR
- Ultra-strong design supports patients up to 250 kg (550 lbs)
- Wide table for enhanced patient space and comfort
- Easily removed for patient transport using the optional FlexTrak patient transport system

### **Workflow / throughput: SmartAssist**

Next generation, easy-to-use SmartExam and ExamCards software that helps the user reduce the number of manual tasks.

- Simplifies workflow by making ExamCards more efficient
- Can reduce repetitive tasks by half
- Increases efficiency, reproducibility and consistency

### **ExamCards**

A grouping of individual sequences and operations that define a clinical protocol. An ExamCard can include both the imaging sequences and any of the SmartAssist functionalities. ExamCards makes even the most complex exams simple.

- A set of Philips defined ExamCards is standard
- User-defined ExamCards can be created and stored
- Can be exported to memory stick or portable device
- Can be locked with a password to prevent unintended changes
- Can be shared among any of your scanners
- Philips Netforum provides an online community that allows ExamCards to be shared and downloaded
- Support user editable tip and procedure/viewing/networking step
- Supports single mouse-click scanner operation

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### SmartStart

One button action that automatically moves the table to isocenter and starts the ExamCard while the operator walks back to the console reducing the setup time.  
SmartSelect coil and element selection

Automatically detects and selects the right coil and coil elements to maximize the SNR matching the area to be scanned.

- Simplifies patient positioning and coil placement
- No need for manual coil or element selection
- Optimal SNR
- Facilitates higher throughput

### SmartExam planning (optional)

Assists the operator in planning the MR exam. SmartExam uses sophisticated algorithms to recognize the anatomy. Then, using previously run exams as input, SmartExam automatically positions slices on the target anatomy, and uses ExamCards to conduct the study, reducing operator input to as little as a single mouse click.

- Targeted for 100% reproducibility and consistency in outcome

SmartExam optional packages include:

- SmartExam Brain
- SmartExam Spine
- SmartExam Shoulder
- SmartExam Knee
- SmartExam Breast

### SmartLink geometry linking

SmartLink (geolink) is a tool for simplifying the planning, viewing and processing of multi-sequence multi-station exams, treating multi-station exams as one volume.

- Allows a single table sweep for multi-sequence (e.g. T1, T2, STIR) multi-station exams. All sequences are run at each station before the table is moved to the next station minimizing the number of table movements for increased patient comfort.
- Provides the flexibility to perform one sequence at all stations before starting the next sequence.
- Labels and sorts images regardless of the order in which they are acquired for subsequent viewing and processing as a single volume.
- BolusTrak (fluoroscopic scans) can be interleaved at any point during a multi-station exam.

### SmartLine processing

Smart, automated and intelligent processing of image data. SmartLine processing steps can be run simultaneously and in parallel with image acquisition. Defined in the ExamCard, the same processing settings are used every time for consistent results.

- Progress of each processing step is clearly displayed to the user alongside the scanning progress.

Line #	Part #	Description	Qty
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The following packages are included:

- **SmartLine** VolumeView Real-time MIP, MPR and 3D surface rendering (standard or user defined volumes of interest enable elimination of unwanted signals regions)
- **SmartLine** ImageAlgebra (including addition, subtraction, relative subtraction, cumulation, ratios, MTC, ASL calculation)
- **SmartLine** PicturePlus for user-defined image filtering (smoothing and/or edge enhancement)
- **SmartLine** T1 / T2 / rho map calculation
- **SmartLine** Delayed Reconstruction enables various retrospective image reconstructions from raw data (e.g. reconstruction of various flow directions from a3D phase-contrast MRA dataset)

Scantools dependent options:

- **SmartLine** Diffusion registration
- **SmartLine** Diffusion (ADC, eADC, etc.)
- **SmartLine** IViewBold real-time fMRI analysis

#### Viewing, filming and export

The MR viewing environment supports fast and flexible viewing, processing and film generation

- Window width/level, zoom, pan, rotate, mirror
- Image annotation (text, arrows and lines)
- Simultaneous visualization of up to four independent series for comparison.
- Cine movie display in various formats
- Drag & drop functionality to enable the creation of films containing random image selections
- Single mouse click film generation of image series using a range of predefined formats
- Images and movies can be exported to Windows PC formats as visible on screen

#### Patient environment and patient handling

The Ingenia was designed with the patient in mind, no matter the age, size or physical condition. The Ingenia's patient environment and patient handling features enhance patient comfort and facilitate exams.

Important features:

- Lightweight, patient-conforming coils
- 70 cm bore and extra-large FOV imaging space
- Digital coil management workflow
- DirectDigital RF technology digitizes the signal in the RF coil on the patient
- SmartAssist efficiency enhancing software

Benefits include:

- More comfortable exams



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Line #	Part #	Description	Qty
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- Decreased need for coil positioning
- Fewer retakes
- Faster exams

### Patient Comfort

- 70 cm aperture for enhanced patient comfort, patient fit and reduced anxiety
- Choice of feet-first or head-first imaging for most applications
- FlexCoverage Posterior coil: Never worry about the position of the patient to this coil. No cables, no connections. This invisible, patient-friendly coil is always there when you need it.
- Lightweight, conforming coils for enhanced patient comfort and operator handling
- Ambient Ring circular light to enhance the visual openness of the system.
- Adjustable fresh air supply in 6 increments
- Adjustable variable in-bore lighting in 3 increments
- In-bore microphone and ceiling-mounted loudspeakers support two-way patient-operator communication and music.
- Hand-held technologist call button.
- Patient headset with built-in two-way communication reduces acoustic noise by up to 25 dB.
- Look-out mirror with adjustable angulation

### Patient support

- Patient support enables patients weighing up to 250 kg (550 lbs) to be comfortably positioned and lifted.
- Wide table top for improved patient comfort and accommodation of larger patients
- Patient table height can be quickly lowered, providing access for compromised or non-ambulatory patients.
- Detachable tabletop can be combined with one or more FlexTrak patient transport systems for efficient patient management and rapid egress. Supported by manual mode table release.
- Up to 200 cm\* scan range
- Horizontal travel of 275 cm (9 ft 1 in.) with +/- 0.5 mm (0.02 inch) accuracy
- Horizontal table speeds of up to 325 mm/s to enable fast, easy patient positioning and rapid multi-station examinations
- Ergonomically designed control units on both sides of the bore to increase operating flexibility.

\* WholeBody Specialist required

### Physiology measurement and gating

Wireless physiological hardware to provide synchronization for sequence triggering and gating. Wireless physiological signals can be observed on the operator's console monitor or on the optional Interventional Monitor.

- Wireless Physiology consisting of wireless Basic Triggering Unit (wBTU) and respiratory module hardware
- Physiological synchronization for sequence triggering and gating through
  - Wireless VCG
  - Wireless Respiratory
  - Wireless PPU (requires optional PPU Sensors)

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### Patient accessories

Comprehensive set of patient accessories, including

- Table mattress set
- Head/leg support
- Knee support
- Positioning wedges
- Small foam wedges
- Set of sandbags
- Set of patient fixation straps

### Computer specifications (may be supplied on one or two computers)

#### Host

- >= 32 GB host memory
- >= 100GB system disk
- >= 250 GB main image database disk (Approx. >= 300,000 images – 256 x 256 image resolution)
- >= 23-inch LCD wide-screen format monitor enabling large overview
- LCD wide screen resolution: 1920 x 1200
- MicroSoft Windows ® OS 64 bits
- External storage via USB port
- 10BaseT, 100BaseT or 1000BaseT connections.

#### Recon

- Fast reconstruction of demanding imaging techniques (interactive real-time, dS-SENSE, high resolution and high coil receiver count).
- >= 6000 images per second (256 x 256 reconstructions)
- >= 13000 recons/sec (256 FFT, 100% FOV)
- >= 32 GB reconstruction memory (RAM)

#### Connectivity / interoperability

The MR environment fits seamlessly into local network environments. Communication is performed via DICOM protocols. The system can be configured for safe storage of MR images and other patient data in departmental information systems and PACS. The MR workspace conforms to the new Enhanced (multi-frame) MR DICOM standard, which improves the performance of data transfer of large data sets and fully supports information associated with diffusion and spectroscopy.

The system can be configured (per node) to support standard DICOM MR image transfer or DICOM Enhanced MR Image Transfer. If a receiving node does not support DICOM Enhanced MR, standard DICOM MR Images will be transferred.

- DICOM Workflow Management:
  - DICOM Modality Worklist
  - DICOM Modality Performed Procedure Steps
  - DICOM Storage Commitment
- DICOM Send/Receive:
  - DICOM Enhanced MR:

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Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• Export / Import of DICOM Enhanced MR Images</li><li>• Export / Import of DICOM MR Spectroscopy</li><li>• Export / Import of DICOM Raw</li><li>• DICOM MR:<ul style="list-style-type: none"><li>• Export / Import of DICOM MR Images</li><li>• Export / Import of Philips Private MR Series Data</li><li>• Export / Import of Philips Private MR Spectrum Data</li><li>• Export / Import of Philips Private MR ExamCards Data</li></ul></li><li>• DICOM SC:<ul style="list-style-type: none"><li>• Export / Import of SC (color) Image Data</li></ul></li><li>• DICOM Grayscale Softcopy Presentation State:<ul style="list-style-type: none"><li>• Export / Import of Grayscale Softcopy Presentation State</li></ul></li><li>• DICOM Query / Retrieve of Philips MR data, all the exported image types</li><li>• DICOM Print<ul style="list-style-type: none"><li>• Grayscale Softcopy Presentation State with preset window settings as on the console</li><li>• Basic Grayscale Print</li></ul></li><li>• DICOM Media<ul style="list-style-type: none"><li>• MR Studies on DVD (Read / Write)</li></ul></li><li>• IHE Integration Profiles<ul style="list-style-type: none"><li>• Scheduled Workflow</li><li>• Patient Information Reconciliation</li><li>• Consistent Presentation of Images</li><li>• Basic Security</li><li>• Consistent Time</li></ul></li></ul>	

Full information on compliance with DICOM standards and available functionality is contained in Philips' DICOM Conformance Statement.

### Installation: EasySite and PowerSave

#### EasySite

System design for rapid installation times, compact siting footprint and low ceiling heights.

- Installation times as short as 7 days, based on prepared site conditions.
- Industry's lightest wide-bore magnet enables siting on upper floors.
- Siting (exam/technical/control room) as little as 27 m<sup>2</sup>.
- Low ceiling height
- Low transport height for easy facility access
- System / building vibration transfer is minimized by special vibration pad that require no facility adaptations.

#### PowerSave

Unique, efficient design combined with smart power management of the high power sub-systems (gradient amplifiers, RF amplifiers, etc.) enable reduction in power consumption by up to 50% without affecting overall performance.

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Line #	Part #	Description	Qty
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### WholeBody Specialist

The Whole Body Specialist package enables rapid, automated whole body imaging with an effective field of view of over 2.1 m (7 ft). With ExamCards, Whole Body Specialist delivers complete multi-station head-to-toe coverage in a single table motion, through the ability to combine all imaging sequences per station (requires ScanTools Pro). Whole Body Specialist supports whole body oncology imaging studies; whole body MR angiography studies and extends DWIBS to the whole body. Ingenia's large FOV allows the full coverage in a reduced number of stations.

Key features:

- Supports up to 20 stations.
- Scanalign feature to guarantee user defined overlap between stations.
- ExamCards automates the entire acquisition. Multiple sequences can be acquired at each station, reducing table movement and shortening total exam time
- MobiView automatically generates one seamless image from multi-station data. Data from each sequence are automatically combined and presented, regardless of the order in which data are acquired

All data created can be transferred via DICOM to PACS or other workstations and all results can be converted to Windows-compatible formats.

### ScanTools Pro

ScanTools Pro provides the following generic workflow features for all clinical anatomies:

- ExamCards, for automated scanning and processing of patient studies. Examcards can be edited during scanning.
- SENSE parallel imaging methods for fast scan times, high resolution or to reduce susceptibility artifacts.
- CLEAR for signal uniformity correction based on coil-sensitivity and on patient loading.
- PicturePlus to enhance appearance of images through edge enhancement and smoothing. Provides full control over all enhancement parameters, which can be applied automatically post-acquisition or as a post-processing option.
- High-resolution acquisitions and reconstruction (1024 matrix) with slice-order selection function to adapt to various slice order conventions.
- In addition, ScanTools Pro contains fast, high resolution imaging methods for the assessment of morphology of various anatomical areas including brain and spine, MSK, body and breast, cardiac, and various blood vessels with or without contrast agents. Specific features per clinical area are listed below.

### Neuro Pro

- Sequences include SE, FFE and EPI based methods, with fat suppression methods including STIR, SPIR, ProSet and SPAIR.
- FLAIR for CSF suppression.
- Snapshot imaging, intended for uncooperative patients, designed to reduce the effects of patient and physiological motion through the combination of rapid TSE sequences and SENSE. Individual Snapshot images can be acquired in any orientation in approximately

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Line #	Part #	Description	Qty
		<p>250ms to 300ms. Asymmetric TSE makes Snapshot compatible with T1-, T2- and diffusion-weighted imaging.</p> <ul style="list-style-type: none"> <li>• Single, Dual and Triple IR sequences for evaluation of gray and white matter differentiation.</li> <li>• 2D TSE with Flip Angle Sweep technology for SAR and Magnetization Transfer reduction, improving gray/white matter contrast in both T2 and FLAIR acquisitions.</li> <li>• 3D based anatomical sequences including:               <ol style="list-style-type: none"> <li>1. VISTA, isotropic 3D TSE for volumetric acquisitions with reconstruction in any plane.</li> <li>2. 3D T1-TFE sequences for volumetric acquisition and reconstruction of the original dataset in any orientation.</li> <li>3. 3D TFE for isotropic coverage of the entire head in short scantimes using SENSE. A single data set can be reformatted into alternate planes both pre- and post-contrast.</li> </ol> </li> <li>• DRIVE for T2-weighted 2D and 3D TSE acquisitions enabling short TRs while maintaining contrast-to-noise and SNR. Used to improve fluid visualization (IAC), for short scan times and to increase resolution.</li> <li>• Balanced FFE/TFE for high-resolution high contrast (IAC and Spine applications).</li> <li>• ProSet water and fat excitation for spinal nerve root imaging. Combines the characteristics of the high-resolution volume acquisitions with ProSet water or fat only selection.</li> <li>• Multiple radial projection myelography both with 2D and 3D sequences.</li> <li>• MultiVane to correct motion for multi-shot TSE examinations with radial encoding. delivers high resolution diagnostic images even in case of patient motion for T2, IR-real &amp; FLAIR TSE imaging as well as gradient-echo examinations.</li> <li>• Dynamic multi-slice T2*-weighted sequences based on single- or multi-shot FFE-EPI methods for perfusion and fMRI sequences.</li> <li>• Single-shot EPI diffusion-weighted imaging (DWI) with three diffusion directions and up to 16 b-values, robust against motion and generating isotropic DWI images.</li> <li>• BolusTrak is designed to synchronize high-resolution CE-MRA acquisitions. BolusTrak uses a real-time fluoroscopic display of bolus arrival in the area of interest and manual start of the target acquisition. BolusTrak in combination with CENTRA minimizes venous contamination and produces optimal arterial vessel contrast and resolution.</li> <li>• TRACS enables accelerated time-resolved contrast-enhanced vascular imaging. TRACS uses SENSE for image acceleration and CENTRA phase-encode ordering for optimized contrast.</li> <li>• m-FFE provides unique image contrast - ranging from 2D or 3D gradient-echo sequences to the combination of echoes.</li> <li>• Venous BOLD provides T2*-weighted 3D sequences compatible with SENSE. These sequences are useful for evaluating various brain anomalies associated with venous blood.</li> <li>• Phase contrast (PC) sensitive imaging for the visualization of moving fluids.</li> <li>• MobiFlex and MobiView, compatible with all sequences, for easy Total Spine imaging.</li> <li>• T2* perfusion analysis.</li> <li>• Diffusion imaging processing with automatic generation of the ADC maps.</li> <li>• 3D Brain VIEW and 3D Spine VIEW deliver high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes.</li> <li>• Dynamic multi-slice T2*-weighted sequences based on single- or multi-shot FFE or FFE EPI methods, including the PRESTO technique.</li> <li>• Processing and calculation of T1 and T2* hemodynamic maps including Mean Transit Time (MTT), Time to Peak (TTP), Time of Arrival (T0), Negative Integral (NI), Index or upslope. All post-processing can be included as an in-line step within Examcard</li> <li>• Prospective motion correction: accounts for subject motion by real time monitoring of motion during acquisition and adjustment of acquisition parameters accordingly.</li> </ul>	

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Additional information on 3D PRESTO:

- Whole brain coverage and high temporal-resolution T2\*-weighted imaging for perfusion-weighted and BOLD imaging studies.
- High temporal resolution and coverage compared to traditional multi-slice techniques.
- Reduce sensitivity to susceptibility and flow artifacts associated with EPI techniques, enabling imaging throughout the brain and into the skull base.

MSK Pro

- SE, TSE, and FFE sequences, with fat suppression provided by STIR, ProSet, SPIR and adjustable fat suppression with the SPAIR method.
- Balanced acquisitions (bFFE) for high-resolution morphology scans.
- DRIVE combined with TSE to increase sensitivity to fluids (with good T2 weighting), even with short TRs.
- Turbo-STIR for fat-suppressed evaluation of bone bruises.
- TSE with asymmetric profile ordering for proton density weighted imaging of joints with high spatial resolution or short scan times.
- Mixed Mode (interleaved IR/SE for combined T1 & T2 map calculation).
- Multi-Echo T2 measurements (up to 32 echoes) for T2 mapping.
- 3D FFE with ProSet for water-only (selective excitation) sequences. Optimizes cartilage and/or fluid imaging with high-resolution in all directions.
- e-THRIVE for 3D high-resolution fat-suppressed imaging.
- MobiFlex for simple visualization of total spine imaging and multiple-station long bone studies.
- Dynamic imaging sequences for TMJ or other joint studies.
- Includes protocols for imaging in the presence of prostheses, with improved susceptibility using SENSE, modifications of water-fat shift and user-specified bandwidth.
- Up to 1024 acquisition resolution and flexible reconstruction resolution via interpolation.
- 3D MSK VIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes. Available in various joints in all common contrasts.

Body Pro

- TSE sequences with respiratory triggering (in combination with breath hold or free breathing).
- MultiVane motion correction for T2w TSE diagnostic images, even in case of severe patient motion.
- In and out of phase FFE/TFE sequences .
- SPAIR for high uniformity fat saturation.
- e-THRIVE volumetric imaging with fat suppression, in short breath-hold times Keyhole for high temporal dynamic imaging.
- Diffusion-weighted sequences with automated creation of Apparent Diffusion Coefficient (ADC) maps.
- MRCP sequences, (radial) single shot and 3D acquisitions.
- High-resolution pelvic imaging.
- VISTA: isotropic 3D TSE pelvic imaging allowing volumetric acquisitions to be reconstructed in any plane.

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Line #	Part #	Description	Qty
		<ul style="list-style-type: none"> <li>• MobiView and MobiFlex for automatic composition of data sets from multi-station acquisitions into full FOV images.</li> <li>• Dynamic scan techniques for monitoring and evaluation of contrast uptake viewing.</li> <li>• High Resolution Diffusion / DWIBS package enables single or multi-station high resolution diffusion weighted imaging with background suppression. Patient and physiological motion is controlled by navigator-based motion correction.</li> <li>• MotionTrak Body includes a real-time respiratory navigator to synchronize data acquisition to the respiratory cycle of the patient. Options include: gating, tracking, gating &amp; tracking, triggering, triggering &amp; tracking. Tracking can improve slice accuracy position over multiple breath hold sequences. Designed for all Body applications, including diffusion and DWIBS.</li> <li>• 3D Pelvis VIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes</li> </ul>	

### Breast Pro

- SPAIR for high uniformity fat saturation.
- e-THRIVE for volumetric coverage with uniform fat suppression.
- BLISS, two bilateral sagittal volumes within a single acquisition.
- Diffusion-weighted sequences with automated creation of Apparent Diffusion Coefficient (ADC) maps.
- Silicone-Only sequences optimized for breast implants.
- 3D Breast VIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes.

### Cardiac Pro

- Black blood prepulses to suppress blood signal for optimized myocardial and lumen visualization.
- Single Slice / Multi Phase for function studies.
- Retrospective triggering with real-time prospective updating for full R-to-R coverage of function studies.
- Temporal profile sharing for playback frame rates higher than acquisition frame rates.
- VCG gating for robust ECG gating and triggering (includes a four-lead cable set).
- Multi-slice capability to multi-phase cine acquisitions.
- ECG-triggered STIR (inversion recovery TSE) including black blood imaging (triple IR).
- ECG-triggered Inversion Recovery (including PSIR) for myocardial tissue characterization.

### MRA Pro

- 3D FFE sequences for assessment of carotids, peripherals and renal arteries, and for contrast enhanced MRA.
- Quantitative flow with variable VENC values for non-invasive measurements of blood flow in three directions.
- 2D/3D Balanced TFE/FFE for fast, high-resolution non-contrast enhanced vascular imaging.
- Phase-Contrast Angio for imaging of brain vasculature.
- TRANCE for 3D high contrast TSE acquisitions without vascular contrast agents.

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• Time-of-flight (inflow) sequences with TONE to improve contrast and MTC to reduce the peri-orbital fat signal.</li><li>• CENTRA for 3D high-resolution contrast enhanced imaging to allow increased spatial resolution without venous contamination.</li><li>• Keyhole imaging to improve temporal resolution in dynamic studies.</li><li>• BolusTrak for synchronization of high-resolution CE-MRA acquisitions with a real-time fluoroscopic display of bolus arrival in the area of interest.</li><li>• MobiView for automated composition of multi-station acquisitions (e.g. MRA runoffs) into single images.</li><li>• MobiFlex for setup and acquisition of complex multi-station exams, combining different FOVs, resolution, geometries and SENSE acceleration factors.</li><li>• Non-invasive quantitative flow measurements of blood, including overlaid color-encoded flow maps on the console.</li><li>• b-TRANCE (balanced TRANCE), a 3D TFE technique with ECG triggering, particularly powerful as a non-contrast enhanced MRA method for renal artery patients.</li></ul>	

### ComforTone

ComforTone provides up to 80% noise reduction within the same time and virtually the same IQ and contrast\*.

ComforTone ExamCards will be available for routine exams (Brain, Spine, MSK) where the reduced noise is guaranteed over the whole ExamCard, including the reference scans.

*\* Compared to scanning without ComforTone*

### dS HeadNeckSpine Pack 1.5T

#### dS TotalSpine 1.5T

An integrated coil solution for total spine related imaging. It includes the FlexCoverage Posterior and the Base coil with 90 cm coverage, using 44 channels maximum.

Posterior coil, used routinely in 60% of all applications, is an integrated coil below the thin table top providing neck-to- toe coverage. This coil does not need to be carried, positioned, connected nor exchanged, thereby enhancing workflow. It is always there when you need it.

- Coverage: 90 cm
- Maximum nr. of channels: 44
- Main applications: Total spine, C-Spine, T-Spine, L-Spine
- Coil type: Integrated
- DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
- Single FlexConnect coil connection and cable for fast and easy setup
- The Base coil can stay on the table for most examinations without exchanging coils

#### dS HeadSpine 1.5T



## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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An integrated coil solution for head and total neuro related imaging. It includes the Head coil. Combined with the FlexCoverage Posterior coil and Base it enables:

- 30 cm coverage, using 15 channels maximum (Head)
- 90 cm coverage, using 51 channels maximum (Total Neuro)

The head section can be tilted to provide optimal positioning and comfort for challenging patients such as Kyphosis patients.

- Coverage: 30 cm (Head) and 90 cm (Total Neuro)
- Maximum nr. of channels: 15 (Head) and 51 (Total Neuro)
- Main application: Head, Brain, Total Neuro, Total spine, C-Spine, T-Spine, L-Spine
- Coil type: Integrated
- Lightweight coil(s)
- DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
  - dS-SENSE capable in AP, LR and FH directions
- Cable-less connection of top coil

### dS HeadNeckSpine 1.5T

An integrated coil solution for head, neck and total neuro related imaging. It includes the HeadNeck coil. Combined with the FlexCoverage Posterior coil and Base it enables:

- 45 cm coverage, using 20 channels maximum (Head-Neck)
- 90 cm coverage, using 52 channels maximum (Total Neuro)
- Coverage: 45 cm (HeadNeck) and 90 cm (Total Neuro)
- Maximum nr. of channels: 20 (HeadNeck) and 52 (Total Neuro)
- Main applications: NeuroVascular, Head, Brain, Pediatric, Total Neuro, Total spine, C-Spine, T-Spine, L-Spine
- Coil type: Integrated
- Lightweight coil(s)
- DirectDigital sampling in the coil for the purest MR signal without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
  - dS-SENSE capable in AP, LR and FH directions
- Cable-less connection of top coil

### dS Flex M 1.5T

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<p>An integrated coil solution for general-purpose imaging. It includes two medium-sized flexible general-purpose coils. Combined with the FlexCoverage Posterior coil they enable 15 cm coverage, with a maximum of 6 channels.</p> <p>The shape and size of the flexible coil elements enable a wide variety of applications, including imaging of medium sized anatomies. The coil can be used to locally enhance resolution of images acquired over a larger FOV, for example in pediatric applications.</p> <ul style="list-style-type: none"><li>• Coverage: 15 cm</li><li>• Maximum nr. of channels: 6</li><li>• Main applications: Shoulder, Foot, Ankle, Knee, Pediatric</li><li>• Coil type: Integrated</li><li>• dS-SENSE enhanced parallel imaging performance</li></ul>	

### **dS SmallExtr 8ch 1.5T**

Semi-flexible coil designed for imaging of elbows, hands and small knees. The coil has an inner diameter of 20 cm to match the size of the small extremities. It has a flexible wrap-around design for easy positioning and good fit. A mattress that supports both patient and coil is provided to increase patient comfort and avoid motion.

- Coverage: 20 cm
- Maximum nr. of channels: 8
- Main applications: Elbow, Arm, Extremities
- Coil type: Dedicated
- dS-SENSE enhanced parallel imaging performance

### **Vascular positioning pack**

Comprehensive set of Vascular accessories, including:

- Arm Support to provide additional support for a patients arm when injections are required. The support easily slides under the patient and can be positioned on either side of table.
- Anterior Coil Frame to create a distance between the coil and the patient thereby avoiding direct contact (e.g. for peripheral vascular disease, pediatric patients).
- Feet Immobilizer to fixate the feet and lower legs in a comfortable and reproducible fashion. It is designed to reduce patient motion in peripheral vascular and whole body imaging.
- A Knee Support that allows for comfortable positioning of the patient to reduce patient motion

### **HA Console table**

Standard office table for MR-operator

- Table surface 160x100 cm
- Adjustable Height

## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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### PPU for wireless physiology

The PPU for wireless physiology package contains a peripheral pulse sensor with the following 4 different sizes: neonate, infant, pediatric and adult. This option is required to use the peripheral pulse as a means to do physiological synchronization for sequence triggering and gating. The sensor can be positioned on finger, toe or foot, and is compatible with the HFO and Achieva platforms. This package is ONLY compatible with Achieva and/or Panorama systems with wireless physiology.

### DVD-PC

Local media storage option intended for burning and reading DICOM data on medical grade DVD's. This option enables the operator to burn DVD's directly or prepare multiple DVD's for burning later.

- Includes DICOM viewer on every DVD created
- Create multiple DVD's for exchange with off-line stations
- Burn DVD's independently of other scanner functions.
- Dimensions (hwxwd): 10x34x38cm

### Clinical Education Package for DS Ingenia:

#### Customer Applications Training \_Introduction to Philips MR Release 5 - Learning Path 1:

This online pre-learning material will introduce the User Interface and clinical handling of the MR scanner to prepare the technologist for on-site training. Learning Path 1 will guide the technologist through specific workflow steps, this self-paced learning module is highly recommended for all Ingenia users and should be completed prior to Essentials OffSite or Handover Onsite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips.

**Release 5 Essentials OffSite Education:** The MR Release 5 Essential course is a prerequisite to attending the MR Release 5 Advanced Concepts course. Philips will provide up to two (2) technologists, as selected by customer, with in-depth didactic, tutorial, and hands-on training covering basic functionality and work-flow of the magnetic resonance imaging system. This twenty-eight (28) hour class is located in Cleveland, Ohio, and is scheduled based on your equipment configuration and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. In order to provide trainees with the ability to apply all fundamental functioning on their system, and to achieve maximum effectiveness, this class should be attended no earlier than two weeks prior to system installation, and trainee should have prior knowledge of basic MR theory. CEU credits may be available for each participant that meets the guidelines provided by Philips.

**Handover OnSite Education:** Philips Education Specialists will provide twenty-eight (28) hours of education for up to four (4) students, as selected by customer. Students should attend all 28 hours, and must include the two OffSite education attendees. This course does not cover Cardiac or Spectroscopy. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient-ready, including all inspections approved, all accessory equipment installed and functioning (injectors, hard copy units, film processors and physiologic monitors), and all supplies stocked.

**100154 Diamond Select Ingenia 1.5T**

Line #	Part #	Description	Qty
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Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

**FollowUp OnSite Education:** Philips Education Specialists will provide twenty-eight (28) hours of Follow-Up Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Customer must have operated the system for at least 30 days. CEU credits may be available for each participant that meets the guidelines provided by Philips. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

**PLEASE NOTE:** For all OffSite Education listed above: CEU credits may be available for each participant that meets the Guidelines provided by Philips. Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292093 (MR Full Travel Pkg OffSite) is purchased with all OffSite courses. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. OffSite training is scheduled based on your equipment configuration and availability.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref# 62616026614615-20150615

2	**NDSE016	no seismic anchoring required	1
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3	**NDSE014	other means of transport	1
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4	**NDSF153	dS Torso 1.5T	1
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An integrated coil solution for body and peripheral vascular related imaging. It includes the FlexCoverage Anterior coil. Combined with the FlexCoverage Posterior coil it enables 60 cm coverage, with a maximum of 32 channels.

The flexible, lightweight easy-to-position FlexCoverage Anterior coil is designed to conform both in right-left and foot-head directions for almost any patient. This enables large coverage and comfortable strap-free operation.

- Coverage: 60 cm
- Maximum nr. of channels: 32
- Main applications: Torso, Chest, Pelvis, Heart, Peripheral-vascular
- Coil type: Integrated
- Lightweight coil(s)
- DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:
  - Enhanced SNR
  - dS-SENSE enhanced parallel imaging performance
  - dS-SENSE capable in AP, LR and FH directions
- Single FlexConnect coil connection and cable for fast and easy setup

5	**NDSF161	dS Knee 16ch 1.5T	1
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## 100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
		<p>Coil designed for ultra-high SNR imaging over an extended field of view of the knee and other extremities. Two overlapping rings of eight elements extend the coverage area and minimize the need for precise positioning. dS-SENSE enhanced parallel imaging can be selected in all directions. The dS Knee 16 ch has a split design for easy patient setup and an ergonomically ramped insert for patient comfort.</p> <ul style="list-style-type: none"> <li>• Coverage: 20 cm</li> <li>• Maximum nr. of channels: 16</li> <li>• Main applications: Knee, extremities</li> <li>• Coil type: Dedicated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>	
<b>6</b>	<b>**NDSF261</b>	<b>dS Breast 7ch 1.5T</b>	<b>1</b>
		<p>A rigid, open-designed coil that can be used alone or in combination with FlexTrak Mammo. The dS Breast 7ch coil is designed for optimal coverage of the axilla region and outstanding performance. The dS Breast 7ch has an open design and will be delivered with compression plates that can be applied in either LR or FH direction. If applied mildly the compression plates will help to reduce motion of the breast therefore contributes to improved image quality. Mild compression in FH also reduces the imaging volume in FH direction which might help to shorten the scan time.</p> <ul style="list-style-type: none"> <li>• Coverage: Bilateral</li> <li>• Maximum nr. of channels: 7</li> <li>• Main application: Breast</li> <li>• Coil type: Dedicated</li> <li>• dS-SENSE enhanced parallel imaging performance. SENSE can be applied in LR and FH direction for enhanced resolution or speed</li> <li>• Very comfortable coil with optimized patient comfort ramp</li> <li>• Includes immobilization plates (for both LR and FH direction) to reduce motion artifacts and accommodate a large range of patient sizes</li> <li>• The dS Breast 7ch coil is compatible with Breast Biopsy Kit (NMRB280).</li> <li>• Integrated LED light offering clear view during biopsy procedure</li> </ul>	
<b>7</b>	<b>**NDSE773</b>	<b>MammoTrak Biopsy Kit 1.5T</b>	<b>1</b>
		<p>Breast biopsy kit allowing the physician to practice a breast biopsy procedure on a phantom. The breast biopsy kit contains a full array of sterile disposables:</p> <ul style="list-style-type: none"> <li>• 1 Breast Biopsy Practice Phantom</li> <li>• 3 Grid plates M-L</li> <li>• 3 Pillar plates M-L</li> <li>• 3 Grid plates C-C</li> <li>• 3 Pillar plates C-C</li> <li>• 1 Localizer Needle</li> <li>• 1 FlexiLoc Needle</li> <li>• 1 ClipLoc Needle</li> <li>• 1 Fully Automatic Biopsy gun</li> <li>• 1 Semi-Automatic Biopsy gun</li> <li>• 1 Coax Needle</li> <li>• 1 Coax Needle High Field</li> <li>• 3 Needle hub assembly</li> </ul>	

**100154 Diamond Select Ingenia 1.5T**

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"> <li>• 3 Needle Blocks (12G)</li> <li>• 3 Needle Blocks (18G)</li> <li>• 3 Needle Sleeve (12G)</li> <li>• 3 Needle Sleeve (18G)</li> <li>• 1 Post &amp; Pillar M-L</li> <li>• 1 Post &amp; Pillar C-C</li> <li>• 1 Breast blocker</li> <li>• 2 Fiducial marker assembly</li> <li>• 1 Fiducial sleeve</li> <li>• 1 Fiducial marker block</li> <li>• 3 Needle Block Holder</li> </ul>	

NOTE: Compatible with the Ingenia 1.5T dS Breast 7ch coil, Ingenia 1.5T FlexTrak Mammo 7ch, Achieva/Intera 1.5T MammoTrak 7ch.

<b>8</b>	<b>**NDSF163</b>	<b>dS FootAnkle 8ch 1.5T</b>	<b>1</b>
		<p>Ski-boot shaped coil for optimum coverage of the ankle and entire foot up to the toes. The coil design and element layout allow for either large FOV imaging of the whole foot or small FOV high resolution imaging for ankle joints. The coil is easy to set up and can be used with the patient's foot vertical or up to 15 degrees plantar flexed.</p> <ul style="list-style-type: none"> <li>• Coverage: 30 cm</li> <li>• Maximum nr. of channels: 8</li> <li>• Main applications: Foot, Ankle, Toes</li> <li>• Coil type: Dedicated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>	
<b>9</b>	<b>**NDSF165</b>	<b>dS Shoulder 8ch 1.5T</b>	<b>1</b>
		<p>Coil designed for high uniformity throughout the shoulder joint, with excellent penetration into the labrum. The coil consists of a base plate and an adjustable shoulder cup which can be raised and pivoted for comfortable positioning. Adjustable design for a comfortable fit for either left or right shoulder.</p> <ul style="list-style-type: none"> <li>• Coverage: 12 cm LR</li> <li>• Maximum nr. of channels: 8</li> <li>• Main application: Shoulder</li> <li>• Coil type: Dedicated</li> <li>• DirectDigital sampling in the coil where the MR signal is at its purest, without loss in the RF chain, enabling:                             <ul style="list-style-type: none"> <li>• Enhanced SNR</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul> </li> <li>• Single FlexConnect coil connection for fast and easy setup</li> </ul>	
<b>10</b>	<b>**NDSF099</b>	<b>SmartExam Breast</b>	<b>1</b>
		<p>SmartExam Breast: enables consistent fat suppression and reproducible image quality of breast examinations, independent of patient or operator.</p>	
<b>11</b>	<b>**NDSF319</b>	<b>AutoVoice</b>	<b>1</b>
		<p>With AutoVoice the patient is guided through the MR examination with voice audio information to the patient on length of scan, breath hold and table movement. Multiple languages can be selected. Includes a recording option for specific commands or languages.</p>	

**100154 Diamond Select Ingenia 1.5T**

<b>Line #</b>	<b>Part #</b>	<b>Description</b>	<b>Qty</b>
12	<b>**NDSF323</b>	<b>mDIXON XD FFE Specialist</b> mDIXON XD FFE Specialist brings the next generation mDIXON algorithms for enhanced fat-free performance with a 2-point mDIXON method with flexible echo times and a 7-peak fat spectrum algorithm. mDIXON XD FFE Specialist provides fat-free FFE imaging with large FOV and sub-millimeter resolution, not only for body imaging, but also for challenging anatomies, including head, neck and spine and single station subtractionless MRA. <i>Note: for Whole Body Imaging and Peripheral MR (an update to) mDIXON XD FFE MultiStation is required!</i>	<b>1</b>
13	<b>**NDSF324</b>	<b>mDIXON XD TSE Specialist</b> mDIXON XD TSE Specialist brings the next generation mDIXON algorithms for enhanced fat-free performance, with a fast, 2-point mDIXON method, flexible echo times and a 7-peak fat spectrum algorithm. mDIXON XD TSE Specialist can be combined with Multivane XD in the head for simultaneous fat- and motion free imaging. mDIXON XD TSE can be used in various parts of the body, including MSK, head & neck, spine and pelvis.	<b>1</b>
14	<b>**NDSF374</b>	<b>ScanWise Implant</b> ScanWise Implant is a user interface with guidance that simplifies scanning patient with MR Conditional implants. It allows you to enter the implant's MR Conditional values only once and as specified by the implant manufacturer. It will automatically adjust all scan and pre-scan parameters to meet the implant conditional values entered by the operator. ScanWise implant makes your MR scanner adhere to the entered implant conditions throughout the whole examination.	<b>1</b>
15	<b>**NDSF379</b>	<b>Black Blood imaging</b> The Black Blood (BB) imaging option enables suppression of intra-lumen signal over the complete imaging volume by means of a special pre-pulse. E.g. BB imaging combined with isotropic 3D TSE acquisitions delivers high spatial resolution data with clear intra-lumen blood suppression in scans in the body like brain, head-neck, liver, etc. The approach is compatible with high 3D dS SENSE factors.	<b>1</b>
16	<b>**NDSF384</b>	<b>3D NerveVIEW</b> 3D NerveVIEW delivers high resolution isotropic 3D TSE acquisitions of the Brachial Plexus and Lumbar Plexus with short scan times by employing high 3D dS SENSE factors, and combining it with high bandwidth STIR fat suppression, and brings improved nerve depiction when applied with black blood (MSDE) suppression pulses. Isotropic acquisition allows reformats in arbitrary planes.	<b>1</b>
17	<b>**FDS2186</b>	<b>FlexTilt</b> The FlexTilt is an easy to use device which allows the dS Base in combination with the dS Head and dS HeadNeck coils to be tilted. The coils can be tilted up to 18 degrees in incremental steps of 2 degrees.	<b>1</b>
18	<b>**FDS2165</b>	<b>Anterior Coil Frame</b> The Anterior coil frame creates a distance between the coil and the patient thereby avoiding direct contact (e.g. for peripheral vascular disease, pediatric patients).	<b>1</b>
19	<b>**NDSE004</b>	<b>Stationary</b>	<b>1</b>
20	<b>**989801256069</b>	<b>MR Full Travel Package OffSite</b>	<b>2</b>

**100154 Diamond Select Ingenia 1.5T**

Line #	Part #	Description	Qty
		Includes one (1) participant's airfare from North American customer location to Cleveland, Ohio with lodging, ground transportation, and meal expenses. Breakfast/dinner provided by the hotel, and lunch/breaks are catered by Philips. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Education expires one (1) year from equipment installation date (or purchase date if sold separately).	
21	**NNAF952	<b>MR Chiller</b>	1
		Chiller and associated hardware designed in accordance with cooling requirements necessary for selected MR scanner with appropriate ambient and seismic options. Bundle includes chiller, remote display, interface panel and start-up kit. Installation cost is not included.	
22	SP007	<b>Rigging Charges</b>	1
		Rigging	
23	SP019	<b>Trade in Allowance</b>	1
		Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in. Product: 781178 Achieva 1.5T Serial Number: 533588 Manufacturer: PHILIPS HEALTHCARE	

Trade-In authorization number: 43254  
 Trade-In Value: XXXXXXXXXX  
 De-install Date: 12/29/2017

Customer will be trading-in equipment that is described on the attached System Disclosure Form (the "Trade-In"), which Trade-In the parties agree (i) will be removed on the De-install Date and (ii) is currently in the condition as represented on the System Disclosure Form. In addition, the parties agree as follows:

1. Customer represents and warrants that Customer has good and marketable title to the Trade-In as of the date of this Quotation and will have good and marketable title when Philips removes the Trade-In from Customer's site (the "Removal Date");
2. Title to the Trade-In shall pass from Customer to Philips on the Removal Date, unless otherwise agreed by Philips and the Customer;
3. Notwithstanding anything to the contrary in any Business Associate Addendum, Customer represents and warrants that as of the Removal Date all Protected Health Information will have been de-identified or removed from the Trade-In;
4. Philips may test and inspect the Trade-In prior to de-installation. If the condition of the Trade-In is not substantially the same on the Removal Date (ordinary wear and tear excepted) as it is identified on the System Disclosure Form, then Philips may reduce the price quoted for the Trade-In;
5. If the removal date is delayed until after the De-Install Date, unless Philips causes the delay, then Philips may reduce the price quoted for the Trade-In by six percent (6%) per month.
6. Philips is responsible for normal de-installation costs of the Trade-In.
7. The trade-in value will not include costs associated for any facility modifications and/or rigging required for de-installation and must be accounted for separately.
8. Customer is responsible for all plumbing necessary to properly drain coolant from chiller system and cap the lines.
9. Prior to the Removal Date, Customer shall remove from the room all equipment that is not being de-installed.



100154 Diamond Select Ingenia 1.5T

Line #	Part #	Description	Qty
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100154 Diamond Select Ingenia 1.5T

NET PRICE



Buying Group: VIZIENT SUPPLY LLC

Contract #: XR0393 MRI

Add'l Terms:

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

Price above does not include any applicable sales taxes.

The preliminary delivery request date for this equipment is:\_\_\_\_\_.

If you do not issue formal purchase orders indicate by initialing here\_\_\_\_\_.

Tax Status:

Taxable\_\_\_\_\_ Tax Exempt\_\_\_\_\_

If Exempt, please indicate the Exemption Certification Number:\_\_\_\_\_, and attach a copy of the certificate.

Delivery/Installation Address:

Invoice Address:

\_\_\_\_\_  
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\_\_\_\_\_

Contact Phone #:

Contact Phone #:

\_\_\_\_\_

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Purchaser approval as quoted:

Date:

\_\_\_\_\_

\_\_\_\_\_

Title:

\_\_\_\_\_

This quotation is signed and accepted by an authorized representative in acknowledgement of the system configuration, terms and conditions stated herein.

## 100154 Diamond Select Ingenia 1.5T

### OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
1	**NDSF156	<b>dS Flex L 1.5T</b> An integrated coil solution for general-purpose imaging. It includes two large flexible general-purpose coils. Combined with the FlexCoverage Posterior coil they enable 20 cm coverage, with a maximum of 8 channels. The shape and size of the flexible coil elements enable a wide variety of applications, including imaging of large anatomies. The coil can be used to locally enhance resolution of images acquired over a larger FOV, for example in pediatric applications. <ul style="list-style-type: none"> <li>• Coverage: 20 cm</li> <li>• Maximum nr. of channels: 8</li> <li>• Main application: Shoulder, Hip, Head, Brachial plexus, Pelvis, Cardiac, Pediatric</li> <li>• Coil type: Integrated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>	1			
2	**NDSF158	<b>dS Flex S 1.5T</b> An integrated coil solution for general-purpose imaging. It includes two small flexible general-purpose coils. Combined with the FlexCoverage Posterior coil they enable 10 cm coverage, with a maximum of 4 channels. The shape and size of the flexible coil elements enable a wide variety of applications, including imaging of small anatomies. The coil can be used to locally enhance resolution of images acquired over a larger FOV, for example in pediatric applications. <ul style="list-style-type: none"> <li>• Coverage: 10 cm</li> <li>• Maximum nr. of channels: 4</li> <li>• Main applications: Elbows, Wrist, Ankle, Inner ear, Pediatric</li> <li>• Coil type: Integrated</li> <li>• dS-SENSE enhanced parallel imaging performance</li> </ul>	1			
3	**NDSF059	<b>mDIXON Body Fat Quant Spec</b> mDIXON Body Fat Quant specialist enables the production of 3D single breath-hold, whole liver, quantitative fat fraction maps. These maps are delivered by a state of the art mDIXON Quant technology consisting of a 3D mDIXON sequence with multiple echo times (4), accounting for T1 bias, correcting for T2* decay and relying on a multi-peak fat model. Next to the Fat fraction maps, Water, Fat, In-phase, Out-phase and T2* relaxation maps can be produced. The maps can be visualized in color, with quantification bar, in the MR console viewing environment or on Intellispace Portal. <i>Note: mDIXON Body Specialist is a pre-requisite for mDIXON Body Fat Quant Specialist.</i>	1			
4	**FDS2164	<b>HA FlexTrak</b> Dockable patient transport system for simplified patient preparation, handling and transportation from preparation room to the MR scanner, without repositioning the patient. <ul style="list-style-type: none"> <li>• HA: Height-adjustable to facilitate easy patient transfer</li> <li>• Lightweight, easy to maneuver FlexTrak dockable patient transport system docks and undocks quickly and easily with patient support and table top. Docking is possible from both sides.</li> <li>• Patient and coils can be prepared outside the MR room. No need to remove coils or to reposition patients.</li> <li>• Integrated coil connections on table and FlexConnect connectors for efficient patient management and rapid evacuation.</li> </ul>	1			

**100154 Diamond Select Ingenia 1.5T**

**OPTIONS**

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
		<ul style="list-style-type: none"> <li>• Easy to use foot pedal locks wheel direction during transport or brakes the FlexTrak while standing still.</li> <li>• When the FlexTrak is positioned and locked against a wall, an adjustable side-rail can be used to prevent a patient from falling.</li> <li>• Optional second FlexTrak offers economical solution to allow improved throughput.</li> <li>• 250 kg / 550 lb capacity</li> </ul>				
5	**NDSF176	<b>FlexCaddy</b>	1			
		Coil storage cart which stores dStream coils and accessories to enhance workflow for a large range of clinical applications. Includes: <ul style="list-style-type: none"> <li>• IV pole</li> <li>• Storage for               <ul style="list-style-type: none"> <li>• 2x Anterior coils</li> <li>• 1x Head Top / other coil</li> <li>• 1x HeadNeck Top / other coil</li> <li>• 1x Base coil</li> <li>• Accessories</li> </ul> </li> </ul>				
6	**989801271129	<b>MEDRAD MRXperion MR Injection System</b>	1			
		<p>The MEDRAD MRXperion Injection System is a syringe-based fluid delivery system indicated for delivery of contrast media and saline during MR procedures. It is intended to be used for the specific purpose of injecting intravenous MR contrast media and saline into the human vascular system for diagnostic studies in magnetic resonance imaging (MRI) applications with MRI scanners that have a magnetic field strength between 0.7 Tesla and 3.0 Tesla. Only trained healthcare professionals are intended to operate this device.</p> <p>The system consists of basic components that communicate by a direct fiber optic connection. The Control Room Unit (CRU) contains the user interfaces (computer touch screen display with Pod) that contain controls used to program and control the injection system. Both also have individual power supplies that require AC power. These components are MR unsafe and should not be taken into the scanner room.</p> <p>The Scan Room Unit (SRU), is positioned near the magnet bore. The Scan Room Unit is MR Conditional device and should be located, installed, and operated per the specifications. It contains the integrated injector pedestal base, IV pole and head with display and controls. The SRU Power Supply is provided to power the Scan Room Unit. The SRU Power supply is MR Conditional device and should be located, installed, and operated per the specifications. The power supply can be mounted outside the scan room with the optional penetration panel filter kit or installed in the scan room at the maximum distance away from the bore or exterior scanner surface. It must be installed no closer than a minimal distance from the scanner as called out in the room layout diagram. It requires AC power and should be positioned to allow AC connection without using any AC power strips.</p>				

**100309 Upgrades MR - Serial # 70699**

**System Type:** Upgrade  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a ninety (90) day product warranty. All other part numbers are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.  
**Additional Terms:**

Line #	Part #	Description	Qty
1	**NMRF067	<b>ScanWise Implant</b> ScanWise Implant is a user interface with guidance that simplifies scanning patient with MR Conditional implants. It allows you to enter the implant's MR Conditional values only once and as specified by the implant manufacturer. It will automatically adjust all scan and pre-scan parameters to meet the implant conditional values entered by the operator. ScanWise implant makes your MR scanner adhere to the entered implant conditions throughout the whole examination.	1
2	**NMRF080	<b>3D SpineVIEW</b> 3D SpineVIEW delivers high resolution isotropic 3D TSE acquisitions in short scan times by employing high 3D dS SENSE factors. Isotropic acquisition allows reformats in arbitrary planes.	1

NET PRICE



Buying Group: VIZIENT SUPPLY LLC

Contract #: XR0393 MRI

Add'l Terms:

Each Quotation solution will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown, Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

Price above does not include any applicable sales taxes.

The preliminary delivery request date for this equipment is:\_\_\_\_\_.

If you do not issue formal purchase orders indicate by initialing here\_\_\_\_\_.

Tax Status:

Taxable\_\_\_\_\_ Tax Exempt\_\_\_\_\_

If Exempt, please indicate the Exemption Certification Number:\_\_\_\_\_, and attach a copy of the certificate.

Delivery/Installation Address:

Invoice Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contact Phone #:

Contact Phone #:

\_\_\_\_\_

\_\_\_\_\_

Purchaser approval as quoted:

Date:

\_\_\_\_\_

\_\_\_\_\_

Title:

\_\_\_\_\_

This quotation is signed and accepted by an authorized representative in acknowledgement of the system configuration, terms and conditions stated herein.

100309 Upgrades MR - Serial # 70699

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
1	**989801256064	MR Additional Training 24 Hours OnSite	1			

Clinical Education Specialist will provide twenty-four (24) hours of MR OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information.

Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

# PHILIPS PRODUCT WARRANTY

## MAGNETIC RESONANCE SYSTEMS (MR)

This product warranty document is an addition to the terms and conditions set forth in the quotation to which this warranty document is attached. Unless specifically listed below, this warranty does not apply to replacement parts. The terms and conditions of the quotation are incorporated into this warranty document. The capitalized terms herein have the same meaning as set forth in the quotation.

### 1. Twelve (12) Month System Warranty.

1.1 Philips warrants to Customer that the Philips Magnetic Resonance System (System) will perform in substantial compliance with its performance specifications, in the documentation accompanying the System, for a period of twelve (12) months after completion of installation or availability for first patient use, whichever occurs first.

1.2 If Coils, Chiller Units, Power Conditioner Units, or Injector Units are purchased from Philips, they will be covered by the special warranty set forth below.

### 2. Planned Maintenance.

2.1 During the warranty period, Philips' service personnel will schedule planned maintenance visits, in advance, at a mutually agreeable time on weekdays, between 8:00 A.M. and 5:00 P.M. local time, excluding Philips observed holidays.

### 3. System Options, Upgrades or Accessories.

3.1 Any Philips authorized options, upgrades, or accessories for the System which are delivered and/or installed on the System during the original term of the System warranty shall be subject to the same warranty terms contained in the first paragraph of this warranty, except that such warranty shall expire on the later of: (a) upon termination of the initial twelve (12) month warranty period for the System on which the option or accessory is installed, b) after ninety (90) days for parts only from the date of installation.

### 4. RF Surface Coils

4.1 The System can be purchased with optional RF Surface Coils ("coils").

4.2 If Coils are purchased with the System, Philips will include the Coils under the System warranty.

4.3 Third party Coils will not be covered under this warranty.

### 5. Chiller Unit, Power Conditioner, or Injector Unit

5.1. The System can be purchased with an optional Chiller Unit, Power Conditioner Unit or Injector Unit ("Units").

5.2 If any of these Units are purchased with the System, Philips will include these Units under the twelve (12) month System warranty as an Original Equipment Manufacturer (OEM) warranty pass through.

5.3 Authorized representatives of the OEM will perform warranty service on each of these Units.

### 6. Magnet Maintenance Service

6.1 During the warranty period, Philips personnel will schedule provide magnet maintenance service.

6.2 The liquid helium (cryogen) levels are monitored and the boil off rate is calculated remotely and maintained within Philips remote services.

6.3 When necessary, cryogen is transferred from Dewars (shipping containers) to the System magnet.

6.4 If cryogen supplies are required, they will be provided to maintain the magnet at operating temperature after delivery and initial cool down.

### 7. System Software and Software Updates

7.1 The software provided with the System will be the latest version of the standard software available for that System as of the ninetieth (90th) day prior to the date the System is delivered to Customer.

7.2 Updates to standard software for the System that do not require additional hardware or equipment modifications will be performed as a part of normal warranty service during the term of the warranty.

7.3 All software is and shall remain the sole property of Philips or its software suppliers.

7.4 Use of the software is subject to the terms of a separate software license agreement.

7.5 No license or other right is granted to Customer or to any other party to use the software except as set forth in the license agreements.

7.6 Any Philips maintenance or service software and documentation provided with the System and/or located at Customer's premises, is intended solely to assist Philips and its authorized agents to install and to test the System, to assist Philips and its authorized agents to maintain and to service the System under a separate support agreement with Customer, or to permit Customer to maintain and service the System.

7.7 Customer agrees to restrict the access to such software and documentation to Philips employees, those of its authorized agents, and to its authorized employees of Customer only.

### 8. Warranty Limitations

8.1 Philips sole obligations and Customer's exclusive remedy under any product warranty are limited, at Philips option, to the repair or the replacement of the product or a portion thereof, within thirty (30) days after receipt of written notice of such material breach from Customer ("Product Warranty Cure Period") or, upon expiration of the Product Warranty Cure Period, to a refund of a portion of the purchase price paid by the Customer upon Customer's request.

8.2 Any refund will be paid, to the Customer when the product is returned to Philips.

8.3 Warranty service outside of normal working hours (i.e. 8:00 AM to 5:00 PM, Monday through Friday, excluding Philips Observed holidays), will be subject to payment by Customer at Philips standard service rates.

8.4 This warranty is subject to the following conditions: the product (a) is to be installed by authorized Philips representatives (or is to be installed in accordance with all Philips installation instructions by personnel trained by Philips); (b) is to be operated exclusively by duly qualified personnel in a safe and reasonable manner in accordance with Philips written instructions and for the purpose for which the products were intended; and (c) is to be maintained and in strict compliance with all recommended and scheduled maintenance instructions provided with the Product.

8.5 Philips' obligations under any product warranty do not apply to any product defects resulting from: improper or inadequate maintenance or calibration by the Customer or its agents; Customer or third party supplied interfaces, supplies, or software including without limitation loading of operating system patches to the Licensed Software and/or upgrades to anti-virus software running in connection with the Licensed Software without prior approval by Philips; use or operation of the product other than in accordance with Philips' applicable product specifications and written instructions; abuse, negligence, accident, loss, or damage in transit; improper site preparation; unauthorized maintenance or modifications to the product; or, viruses or similar software interference resulting from connection of the product to a network.

8.6 Philips does not provide a warranty for any third party products furnished to Customer by Philips under this quotation; however, Philips shall use reasonable efforts to extend to Customer the third party warranty for the product.

8.7 The obligations of Philips described herein and in the applicable product-specific warranty document are Philips only obligations and Customer's sole and exclusive remedy for a breach of a warranty.

8.8 Customer is to notify Philips immediately in the event the product at any time fails to substantially meet its printed performance specifications; and only Philips personnel acting under the direct supervision of Philips service management are to perform all maintenance of the cryogen subsystem (including replenishment of cryogen).

8.9 THE WARRANTIES SET FORTH HEREIN AND IN PHILIPS WARRANTY DOCUMENT WITH RESPECT TO A PRODUCT (INCLUDING THE SOFTWARE PROVIDED WITH THE PRODUCT) ARE THE ONLY WARRANTIES MADE BY PHILIPS IN CONNECTION WITH THE PRODUCT, THE SOFTWARE, AND THE TRANSACTIONS CONTEMPLATED BY THE QUOTATION, AND ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTY ES, WHETHER WRITTEN, ORAL, STATUTORY, EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF NON-INFRINGEMENT MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

8.10 Philips may use refurbished parts in the manufacture of the products, which are subject to the same quality control procedures and warranties as for new parts.

### 9. Remote Services Network ("RSN").

9.1 Customer will (a) provide Philips with a secure location at Customer's premises to store one Philips remote services network router and provide full and free access to this router, (or a Customer-owned router acceptable to Philips) for connection to the equipment and to Customer's network; or (b) provide Philips with outbound internet access over SSL; at all times during the warranty period provide full and free access to the equipment and the Customer network for Philips use in remote servicing of the product, remote assistance to personnel that operate the products, updating the product and regular uploading of products data files (such as but not limited to error logs and utilization data for improvement of Philips products and services and aggregation into services).

9.2 Customer's failure to provide such access will constitute Customer's waiver of the scheduled planned maintenance service and will void support or warranty coverage of product malfunctions until such time as planned maintenance service is completed or RSN access is provided.

9.3 Customer agrees to pay Philips at the prevailing demand service rates for all time spent by Philips service personnel waiting for extended coverage.

### 10. Transfer of System

10.1 In the event Customer transfers or relocates the System, all obligations under this warranty will terminate unless Customer receives the prior written consent of Philips for the



transfer or relocation.

10.2 Upon any transfer or relocation, the System must be inspected and certified by Philips as being free from all defects in material, software and workmanship and as being in compliance with all technical and performance specifications.

10.3 Customer will compensate Philips for these services at the prevailing service rates in effect as of the date the inspection is performed.

10.4 Any System which is transported intact to pre-approved locations and is maintained as originally installed in mobile configurations will remain covered by this warranty.

**11. Limitation of Liability**

11.1 THE TOTAL LIABILITY, F ANY, OF PH L PS AND ITS AFFILIATES FOR ALL DAMAGES AND BASED ON ALL CLA MS, WHETHER ARISING OR RELATING TO FROM BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, INDEMNITY, STRICT LIAB LITY OR OTHER TORT, OR OTHERWISE, ARIS NG FROM A PRODUCT, LICENSED SOFTWARE, AND/OR SERVICE IS LIMITED TO THE PRICE PAID HEREUNDER FOR THE PRODUCT, LICENSED SOFTWARE, OR SERVICE GIV NG RISE TO THE LIABILITY.

11.2 THIS L MITATION SHALL NOT APPLY TO:

(a) TH RD PARTY CLAIMS FOR DIRECT DAMAGES FOR BOD LY INJURY OR DEATH TO THE EXTENT CAUSED BY PHILIPS NEGLIGENCE OR PROVEN PRODUCT DEFECT.

(b) CLAIMS OF TANG BLE PROPERTY DAMAGE REPRESENTING THE ACTUAL COST TO REPAIR OR REPLACE PHYSICAL PROPERTY TO THE EXTENT CAUSED BY PH L PS NEGLIGENCE OR PROVEN PRODUCT DEFECT;

(c) OUT OF POCKET COSTS INCURRED BY CUSTOMER TO PROV DE PATIENT NOTIFICATIONS, REQUIRED BY LAW, TO THE EXTENT SUCH NOTICES ARE CAUSED BY PHILIPS UNAUTHORIZED DISCLOSURE OF PHI; and;

(d) FINES/PENALTIES LEV ED AGA NST CUSTOMER BY GOVERNMENT AGENC ES CITING PH L PS UNAUTHORIZED DISCLOSURE OF PHI AS THE BASIS OF THE FINE/PENALTY, ANY SUCH FINES OR PENALTIES SHALL CONSTITUTE DIRECT DAMAGES,

**12. Disclaimer**

12.1 N NO EVENT SHALL PHILIPS OR ITS AFFILIATES BE LIABLE FOR ANY NDIRECT, PUNITIVE, NCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR SPECIAL DAMAGES, NCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA OR THE COST OF SUBSTITUTE PRODUCTS OR SERVICES WHETHER ARIS NG FROM BREACH CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, INDEMNITY, STRICT LIAB LITY OR OTHER TORT.

**13. FORCE MAJEURE**

13.1 Philips and Customer shall each be excused from performing its obligations arising from any delay or default caused by events beyond its reasonable control including, but not limited to: acts of God, acts of third parties, acts of the other party, acts of any civil or military authority, fire, floods, war, embargoes, labor disputes, acts of sabotage, riots, accidents, delays of carriers, subcontractors or suppliers, voluntary or mandatory compliance with any government act, regulation or request, shortage of labor, materials or manufacturing facilities.

Philips system specifications are subject to change without notice Document Number 4535 983 03237 999

## Non Disclosure Agreement for Philips Confidential Pricing Information

The parties specified below agree to the following terms:

**A. Philips**

Name	Philips Healthcare, a division of Philips Electronics North America Corporation
Address	22100 Bothell-Everett Highway, Bothell, WA 98021 United States of America

**B. Company**

Name	GREENVILLE MRI LLC
Address	2200 BEASLEY DR GREENVILLE, NC 27834-2844

**C. Confidential Information**

Authorized Purpose	To evaluate Philips' confidential information relating to pricing for imaging equipment ("Pricing") in connection with the potential purchase of such imaging equipment.
Period	Begins on the date Pricing is first disclosed and continues for 5 years from date Pricing is last disclosed.

**D. Philips Contact**

Name	Bethann Griffith-Subik
Title	
Telephone	(919) 677-9046
Fax	(919) 677-9047
e-mail	
Signature	

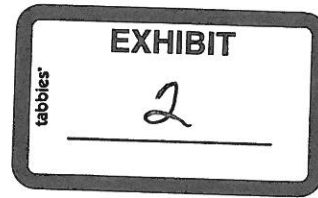
**Company Contact**

Name	
Title	
Telephone	
Fax	
e-mail	
Signature	

1. The following terms and conditions (the "Agreement") apply to Pricing disclosed by Philips and its Affiliates ("Philips") to Company and its Affiliates ("Company"), in connection with the Authorized Purpose.
  - (a) Subject to Philips' prior written consent, Company may disclose, or request that Philips disclose, Pricing to Company's Affiliates that need to know the Pricing for carrying out the Authorized Purpose, provided they are advised of and agree to be bound by this Agreement. Company is responsible for any breach of this Agreement by its Affiliates.
  - (b) An Affiliate is any corporation, company, or other entity, that: (i) is under the Control of a party hereto; or (ii) has Control of a party hereto; or (iii) is under common Control with a party hereto. For this purpose "Control" means that more than fifty percent (50%) of the controlled entity's shares or ownership interest representing the right to make decisions for such are owned or controlled, directly or indirectly, by the controlling entity.
  
2. Philips may disclose Pricing to Company with respect to the Authorized Purpose in writing, orally, or otherwise. All information is assumed to be Pricing, and confidential, if the confidential or proprietary nature is reasonable under the circumstances.
  
3. All Pricing disclosed by Philips shall remain Philips' the property. Company does not, by implication, estoppel, or otherwise, acquire any intellectual property right, title, or ownership, nor a license to any such intellectual property right, with respect to any Pricing disclosed by Philips hereunder.
 

ALL PRICING IS PROVIDED ON AN "AS IS" BASIS, WITHOUT ANY WARRANTY WHATSOEVER. PHILIPS SHALL HAVE NO LIABILITY WHATSOEVER RESULTING FROM THE USE OF THE INFORMATION PROVIDED.
  
4. Company shall:
  - (a) not use the Pricing for any purpose other than the Authorized Purpose;
  - (b) not disclose the Pricing to any third party;
  - (c) protect the Pricing against disclosure in the same manner and with the same degree of care with which Company protects its own confidential information but not less than a reasonable degree of care; and
  - (d) limit circulation of the Pricing to Company's employees as have a need to know in connection with the Authorized Purpose.

These obligations shall survive the termination of this Agreement. Philips may terminate this Agreement at any time by means of a written notice to Company. Company shall return to Philips, or certify destruction of, all Pricing, immediately upon termination or expiration of this Agreement.
  
5. Information disclosed by Philips to Company pursuant to this Agreement shall not be confidential to the extent that the information:
  - (a) is or becomes part of the public domain without violation of this Agreement or any other obligation of confidentiality;
  - (b) is known by Company prior to disclosure by Philips;
  - (c) is lawfully obtained by Company from a third party without any breach of confidentiality or violation of law; or
  - (d) is developed by Company completely independently of any such disclosure by Philips.
  
6. If Company is required, pursuant to administrative or judicial action or subpoena, to disclose the Pricing, Company shall use its best efforts to maintain the confidentiality of the Pricing, e.g. by asserting in such action any applicable privileges. Immediately after gaining knowledge or receiving notice of such action or subpoena, Company shall notify Philips and give Philips the opportunity to seek any other legal remedies so as to maintain such Pricing in confidence, including a reasonable protective order.
  
7. Company may not transfer or assign any or all of its rights and/or obligations or delegate the performance of any or all of its obligations under this Agreement, directly or indirectly, through acquisition, merger or otherwise, without the prior written consent of Philips. Any transfer, assignment or delegation in contravention of the foregoing shall be void.
  
8. Company shall not disclose, export or release the Pricing in contravention of any applicable laws or regulations.
  
9. This Agreement shall be governed and construed in accordance with the laws of the State of New York, without giving effect to its conflict of laws provisions.
  
10. This Agreement contains the entire understanding of the parties and supersedes any previous understandings or agreements with respect to the subject matter hereof. This Agreement may be amended only in writing signed by authorized representatives of each party.



October 25, 2017

Mrs. Jenny Myers  
Eastern Radiologists  
Greenville, NC

**RE: Renovations to MRI Room #1 for new Philips Ingenia 1.5T Omega**

Jenny;

We propose to construct the above referenced project per the following:

**CONSTRUCTION:**

Division 01 – General Requirements

- Architectural and engineering.
- Keep a current and up to date copy of the construction documents marked with red-lines for all changes that occur during the work.
- Provide all required shop drawings and submittals, and keep a copy of all approved shop drawings and submittals in the job site office. Turn over all approved files as well as all appropriate operation and maintenance manuals to the Owner upon completion of the project.
- Provide all necessary samples and test panels.
- Project supervision.
- Provide all necessary permits and pay for all inspection fees.
- Pay all applicable taxes on the work.
- Provide all overtime labor as required to complete the project within the agreed upon schedule.
- Standard job site work hours are 7:00 AM to 5:00 PM. Permission to work at the site during any periods other than standard work hours must be approved in advance, in writing.
- HEPA filters and infection control procedures as required by the facility. Maintain negative pressure in the construction area as required by the facility.
- Provide for daily broom cleaning of the job site and debris removal and appropriate disposal (including any Philips equipment containers and packing materials). Use of walk off mats as required by the facility. The entire job site shall be thoroughly cleaned upon completion of the work, prior to turnover to the customer.
- The storage, staging, and delivery of materials to the job site shall be as follows: Facility representative.

Mrs. Jenny Myers

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October 25, 2017

- Parking for construction workers is restricted to: Direction by facility representative.
- Compliance with the Owner's security regulations and dress codes is required.
- Use of the Owner's facilities is limited to: Direction by facility representative.
- A clean unrestricted access route to the project site is to be provided by the customer.
- This proposal assumes that all of the on-site work will be accomplished in one phase, so that once work begins on site it will continue until all work has been completed.
- Provide an on-site Dumpster as necessary.

#### Division 02 – Existing Conditions

- The installation of code compliant temporary partitions to secure areas, control dust, protects adjacent areas and equipment as required is included.
- The demolition and appropriate removal and disposal of existing flooring and ceiling as required accommodating the new work. All items that are intended to be salvaged by the Owner will be so noted and removed by the Owner prior to the start of the demolition work.
- This scope of work does not include the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the Owner will be notified, and the work will again proceed after the Owner has removed all of the hazardous material from the job site.
- Provide adequate dust protection as necessary. (Including air scrubbers and hepa filters.)

#### Division 03 – Concrete

- Furnish labor and material to install 10' x 20' concrete pad for new chiller and condenser.

#### Division 04 – Masonry- N/A

#### Division 05 – Metals – N/A

#### Division 06 – Wood, Plastics, and Composites

- Furnish labor and material to relocate existing Casework.

#### Division 07 – Thermal and Moisture Protection

- Furnish labor and material to install temporary dry-in wall with door at magnet access.

Division 08

- Furnish labor and material to remove existing store front window and store for reinstallation. Reinstall window blinds.

Division 09 – Finishes

- Furnish labor and material to install new 2x2 acoustical ceiling with oval ceiling over magnet. (Aluminum grid.)
- Furnish labor and material to install new Luxury Vinyl Plank flooring with 4" base cove.
- Furnish labor and material to patch and repair sheetrock walls and prep for paint.
- Furnish labor and material to paint.

Division 10 – Specialties-N/A

Division 11 – Equipment – N/A

Division 12 – Furnishings – N/A

Division 13 – Special Construction

- Preliminary RF attenuation testing of the existing shielding to evaluate the condition of the enclosure.
- Remove RF windows, panels and framing members at magnet entry.
- Remove existing RF filter tunnel and RF panel.
- Modify wall to accept new Philips filter tunnel.
- Provide and install RF filter tunnel to accept new Philips System Filter Box.
- Remove waveguides used for Philips Patient Ventilation, chiller lines and RF seal openings.
- Remove RF shielded door. Provide and install new outswing RF shielded door.
- Reinstall RF windows, panels and framing members at magnet entry wall.
- Install Philips System Filter Box.
- Perform final RF attenuation test.

Division 14 – Conveying Equipment – N/A

Division 21 – Fire Suppression – N/A

Division 22 – Plumbing-N/A

Mrs. Jenny Myers

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#### Division 23 – Heating, Ventilating, and Air Conditioning

- Remove existing chilled water supply and return lines.
- Install new 2" chilled water supply and return. Insulate with aluminum jacket.
- Set new chiller supplied by Philips. Purge and fill with propylene glycol.
- Chiller and quench vent provided by Philips.

#### Division 26 – Electrical

- Replace 100 amp breaker with new 80 amp breaker and serve load side unit.
- Rework and purchase new cable tray to replicate existing.
- Provide and install new 50 amp three phase feeder for the chiller with load side connections.
- Use existing trough in Control Room.
- Use existing floor trough.
- No new outlets required.
- Grounding of cable tray.
- Provide and install eight (8) new LED recessed can lights with dimmer switch.

Division 27 – Communications – N/A

Division 28 – Electronic Safety and Security – N/A

Division 312 – Earthwork – N/A

Division 32 – Exterior Improvements – N/A

## EXCLUSIONS

- All items not included in the scope of work must be added to this section. Bold faced items cannot be excluded.
- This scope of work does not include the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the Owner will be notified, and the work will again proceed after the Owner has removed all of the hazardous material from the job site.
- Additional HVAC system components or capacity other than what is included in the description of work above.
- Repair or replacement of existing HVAC system components other than what is included in the description of work above.
- Conduit, wiring, connections and programming to the existing or future facility Building/Energy Management System is not included and is the responsibility of the customer.
- Physicist provided radiation shielding design or post renovation testing.
- Floor or ceiling mounted radiation shielding.
- Work in a bio-hazardous, radioactive, toxic or other high risk environment.
- Work involving emergency power other than what is included in the description of work above.
- New utility power services, other than what is included in the description of work above.
- Networking to other modalities, other than what is included in the description of work above.
- Work outside of normal working hours other than what is included in the description of work above.
  - Removal/relocation of existing equipment is not included other than what is included in the description of work above.
  - The services of a professional interior designer are not included, nor are any furnishing, furniture, artwork, window treatments, miscellaneous accessories, etc.
  - Vibration testing of the site is not included, nor is any vibration remediation work.
  - Any construction due to State or Local code upgrades.
  - Any upgrades to existing power conditions.
  - Any work involving structural, acoustical ceiling in control room and toilet and sprinkler & fire protection.
  - Any work involving pre-action sprinkler system.
  - Any work involving chiller cold head by-pass.
  - Any work involving steel shielding.
  - Any work involving DCLC.
  - Any work involving magnet rigging.
  - Any work involving major utilities underneath concrete slab such as electrical, plumbing, etc.
  - Emergency power, generator, automatic transfer switch, and/or UPS system other than specified.
  - Any other work or service other than those specified in the Scope of Work.

Mrs. Jenny Myers  
Page 6  
October 25, 2017

We propose to construct this work for the amount of **One Hundred Eighteen Thousand Six Hundred Dollars. (\$118,600.00)**

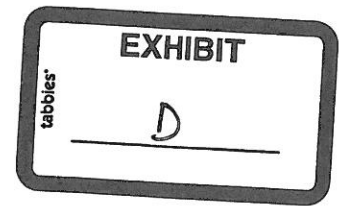
Please do not hesitate to contact me if you should have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Bobby Evans", with a long horizontal line extending to the right.

Bobby Evans  
Vice President





# PHILIPS

Greenville MRI LLC  
2101 W. Arlington Blvd.  
Greenville, NC  
September 15, 2017

To whom it may concern:

This letter is to confirm that Philips Healthcare will accept the 2005 Philips Achieva 1.5T system, serial number 20000, site ID 533588, located at Greenville MRI, LLC in Greenville, NC (the "Existing Equipment") as a trade-in for the new Philips Ingenia I.5T system (the "Replacement Equipment"). Upon trade-in, Philips Healthcare will permanently remove the Existing Equipment from North Carolina. Philips Healthcare also acknowledges and agrees that the Existing Equipment will no longer be exempt from requirements of the North Carolina CON law and that the Existing Equipment will not be used in North Carolina without first obtaining a new CON.

If you have any questions, please feel free to contact me.

Thank you,

*Mike*

Michael Vitagliano  
Director, Trade-in and Asset Management  
Refurbished Systems  
Philips Healthcare  
595 Miner Road  
Cleveland, Ohio 44143  
Phone (440) 483-5931  
[michael.vitagliano@philips.com](mailto:michael.vitagliano@philips.com)