

St. Vincent's Chilton | St. Vincent's East | St. Vincent's One Nineteen | St. Vincent's St. Clair

810 St. Vincent's Drive | Birmingham, AL 35205 205.939.7184 | stvhs.com



August 14, 2019

Emily T. Marsal Executive Director State Health Planning and Development Agency 100 North Union Street, Suite 870 Montgomery, AL 36104

RE: Request for Determination of Exemption Status St. Vincent's Birmingham – Birmingham, Alabama Cardiac Catheterization Lab Equipment

Dear Ms. Marsal,

Enclosed, please find a Request for Determination of Exemption Status for cardiac catheterization equipment to be replaced at St. Vincent's Birmingham in Birmingham, Alabama. The request includes the replacement of equipment used to perform radiologic imaging for cardiac catheterization procedures.

The equipment cost is \$1,218,558 and the hospital will spend approximately \$154,000 for construction and installation, which is below the threshold requiring a Certificate of Need. The hospital respectfully requests approval for this equipment replacement. The application filing fee in the amount of \$2,437.12 is enclosed with this request.

If you have any questions or need further information about this request, please contact me via phone at (205) 930-2113 or via email at Brenna.Powell@ascension.org.

Sincerely,

Brenna M. Powell

Brenna M. Powell Chief Strategy Officer Ascension, St. Vincent's Health System and Providence Hospital



RECEIVED

Aug 28 2019

STATE HEALTH PLANNING AND DEVELOPMENT AGENCY

State Health Planning and Development Agency

Mailing address: Post Office Box 303025, Montgomery, Alabama 36130-3025 Street address: 100 North Union Street, Suite 870, Montgomery, Alabama 36104

Request #	
Date Rec.	-
Received by:	

REQUEST FOR DETERMINATION OF EXEMPTION STATUS FOR REPLACEMENT OF EXISTING EQUIPMENT

A filing fee in the amount of \$_____ has been submitted with this application.

REQUESTER IDENTIFICATION (Check One) HOSPITAL (X) NURSING HOME (____) OTHER (____) (Specify) _____

A. St. Vincent's Birmingha	ım		
Name of requester			
810 St. Vincent's Drive		Birmingham	Jefferson
Address		City	County
Alabama	35205		(205) 939-7688
State	Zip		Phone

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Name of Facility/Organization (if different from A)

Address				Cit	у			Co	unty
State		Z	lip				Pho	one	
C. St. Vincer	nt's Healt	h System							
Name of Leg	gal Own	er (if differ	ent from A or E	3)					
810 St. Vince	ent's Driv	9		Birm	ningha	m		Je	fferson
Address				Cit	у			Со	unty
Alabama		;	35205				(2	:05) 939-76	688
State		Z	Zip	Phone					
D. Brenna P	owell, Cl	nief Strategy	y Officer						
	Title o		Representing	Proposal	and	With	Whom	SHPDA	Should
810 St. Vince	ent's Driv	e		Bir	mingh	am		Je	fferson
Address		4		Cit	y			Co	unty
Alabama		3	5205	(205) 939-7688			88		
State		Z	Zip				Pho	one	

DESCRIPTION OF EQUIPMENT TO BE REPLACED DESCRIPTION OF PROPOSED NEW EQUIPMENT

A.	Manufacturer: Philips	Philips
	Serial # 10329	to be assigned upon delivery
	······································	
B.	Model: Siemens Axiom Artis FC	100237
C.	Name of equipment: Siemens Axiom Artis FC	Azurion 7 M20
D. <u>\$2.</u> 	Cost of equipment (include written price	
_\$1,2	218,558 (See attached price quote)	
F. Cur plac	Describe use of current equipment: rent equipment is used for radiographic/fluoros cement for cardiac catheterizations and other s	copic procedures for visualization and catheter/wire imilar procedures
Pro visu	Describe use of proposed equipment: posed equipment is used for the same purpose alization and catheter/wire or other similar pro	e, to perform radiographic/fluoroscopic procedures for
	performed by old equipment:	cedures associated with this equipment that could not be prformed by the new equipment as compared with the

Rev. 5-13

H. Can any procedures be performed with the proposed new equipment that cannot be performed with the replaced equipment? If yes, describe in detail:

No new procedures will be performed with the new equipment that cannot be performed with the equipment being replaced

 Location of existing equipment (include room #): St. Vincent's Birmingham, Cath Lab, Room #3

J. List specially trained or qualified personnel necessary for operation of equipment: Cardiovascular physician, registered nurse, radiologic technologists

K. What use will be made of old equipment when replaced? (Trade in on new equipment, used as back up, save for parts, etc.) The old equipment will be traded in for new equipment

L. List job titles of any additional personnel that will be required to operate the new equipment. No additional personnel will be needed

M. Describe any renovation or new construction that will be necessary for the installation of the replacement equipment and cost. Total construction cost will be approximately \$154,000

N. Describe any new annual operating cost associated with this project such as maintenance contracts, salaries of new employees hired due to equipment, etc.
 No new annual operating costs

111. COST

C.

A.	Equipment costs (Costs have to be supported by price quote on manufacturer's stationery or letterhead.) Cost of equipment only; do not list lease cost.	\$_1,221,158
В.	Less trade-in of old equipment	\$_2,600
C	Total cost of equipment	\$_1,218,558

Total cost of equipment Calculation of fee for this determination:

Multiply dollar amount in III.C. (total cost of equipment) times 1% (the application fee for a Certificate of Need); 20% of this amount is the application fee for non-rural hospitals.

For rural hospitals, the application fee is 25% of the application fee as calculated above for non-rural hospitals.

Include manufacturer's literature on old equipment, if available, and on the new equipment.

Include any other information pertinent to the determination.

The Executive Director may request any other information which is relevant to his decision.

CERTIFICATION IV.

I certify that the information provided herein is true and correct and that there is no additional information which would be pertinent to this application which has not been provided. Further, I understand that any misrepresentation on this application or failure to include relevant information may void any favorable determination secured by such misrepresentation or omission.

Brenna M. Powell

Signature of Applicant

Brenna M. Powell, Chief Strategy Officer Applicant's Name and Title (Type or Print)

Sworn to and subscribed before me this

day of Notary Public (affix seal on original) NIE OF GLORIA YVONNE SOUTHALL NOTARY My Commission Expires August 15, 2022

Rev. 5-13

A-29

Capital Request Deliverable Form Required Information:

Requestor: Shannon Scaturro	Facility/Location: STV Birmingham
Requester Email Shannon.scaturro@ascension.org	_Date Submitted: 07.01.19
Requester Phone: (205) 939.7000	Vendor: Philips Healthcare
Department: Cardiology	Sales Rep. Email: justin.heims@olympus.com

Department ID Number:

Health Ministry: STVHS ALBIR

Sales Rep. Phone: 256,590,3943

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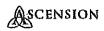
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Description of Capital Equipment	Azurion Cath Lab
Is equipment on contract? If no, please attach a written justification to this form.	⊠ Yes Contract number □ No
Does equipment contain software?	⊠ Yes □No
Are disposables / reagents required for this equipment to be used?	디 Yes ⊠No
Will existing equipment be involved in a trade-in?	⊠ Yes □ No '
Replacement of existing equipment?	⊠ Yes □ No CEID to retire
EMERGENT or STANDARD	EMERGENT (facility CEO must provide a signature) STANDARD
Date equipment is required	09.01.19
Budget Item	⊠ Yes □ No Amount Budgeted\$1,300,000
Source of funding	FY20 Discretionary
Estimated / current quote	\$1,300,000
Equipment renovation/construction costs	\$TBD
IT costs	\$0
Installation / upfront service cost	\$0
Service/Ongoing maintenance (annual cost)	\$0
Location of asset (i.e. OR 1)	Cath Lab Room #3
Useful life, as defined by the American Hospital Association (AHA)	7 years
Age of current asset	10 years



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Capital Request Delíverable Form – Cont'd
TriMedx Approval: Dr Yes D No Date: 7-6-19
Printed: <u>Tim Finchim</u> Signature:
Comments: Etis TAGe Unit CELD 50028251. NOTAL 12-8-2003 INCRUTEING DOWNTIME.
CIO or Designee Approval: 🖾 Yes 🖾 No Date: <u>7/9/2019</u>
Printed: Kyle Johnson Signature: Kyle L. Johnson
Comments:
Facilities Approval: X Yes I No Date: 7/9/19
Printed: BRIAND MCCARLEY Signature: E
Comments:
Finance Approval: Yes No Date: 7/11/19 Printed: HARRY HOPKIN5 Signature: A
CEO Approval: E. Yes Do Date: 1/10/11 Printed: GNANN Signature: Quite Signature:
CEO signature required for all EMERGENT requests (On-Contract or Off-Contract). Facility CEO may sign this form or the Contract Alignment Tool Emergent Walver attached below.
Comments:



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

PHILIPS

Quotation #: 1-21XMO5E	Rev: 4	Effective From: 02-Jul-19	To: 31-Aug-19
Presented To: ST VINCENTS BIRMINGHAM 810 SAINT VINCENTS DR BIRMINGHAM, AL 35205-1601		Presented By: Justin Helms Account Manager Steve Shever Regional Manager	Tel: (256) 590-3943 Fax: Tel: Fax:
Tel:			
Alternate Address:			
Date Printed: 02-Jul-19	AM		
Submit Orders To: 22100 BOTHELL EVERETT HWY BOTHELL WA 98021			
Tel: (888) 564-8643		Fax:(425) 4	58-0390

This quotation contains confidential and proprietary information of Philips Healthcare, a division of Philips North America LLC ("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 Solu	tilom Sum	Nonie Vrvy		
Line # Product		Qty		Price
100237 Azurlon 7 M20		1		\$1,218,558.00
		Equipment Total:		\$1,218,558.00
Solution S	unononeney l	Detail		
Product	Qty	<u>Each</u>	Monthly	Price
100237 Azurion 7 M20	1	\$1,218,558.00		\$1,218,558.00
Buying Group: ASCENSION HEALTH RSMG	Contract #:	ME000001113		

Addt'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, 70% Upon delivery, 30% Upon Acceptance, Net 60

Quote Summary 100237 Azunion 7 M20

Qty	Product
1	NNAE772 Azurion 7 C20
1	NNAE751 Intrasight Interventional 5
1	NCVD069 ClarityIQ.
10	FCV0588 Isolated Wall Connection Box
1	NCVD061 optional ref monoplane
1	NCVD099 Quantilative Coronary Analysis
1	NCVA694 Subtracted Bolus Chase
1	NCVA101 peripheral X-ray filter
1	NCVA783 table pivot option
1	NCVD100 Left Ventricular Analysis
1	NCVD064 extension to FlexVision Pro
1	NCVD072 SmartMask Monoplane
1	NCVD081 Touch Screen Module Pro
1	NCVD078 FD Dual Fluoro monoplane
1	NCVD032 FlexVision XL HD + 2 LCD's
2	980406041009 Rad Shield w/ Arm (Contoured) 61X76
2	989801220012 Cable Spooler
2	989801220037 M LED 3MC Light
2	989801220273 Ceiling Track w/Column & Handle Ext
2	989801220375 Black Anti-fatigue Floor Mat w/logo.
1	989801220380 Full Load Remote UPS
1	SP059Q Clinical Services Flex Account
1	SP019 Trade in Allowance
1	SEBLRSVNP1 Customer Note

Options

Qty	Product
1	FCV0834 coupling to video switching
1	NCVC466 VesselNavigation Complete
1	NCVC544 StentBoost Live
1	NCVB167 MR/CT Roadmap
1	NCVA695 FD Rotational Angio
1	NCVD138 table tilt option

Quote Summary

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Options

Option	13
Qty	Product
1	NCVB882 Cradie extension
1	NCVD128 storage extension
1	NCVD178 IW Hardware
1	NCVC546 HeartNavigator R3
1	NCVC327 XperCT Dual
1	NCVC664 SmartPerfusion
1	NCVC564 XperCT Open and Closed
1	NNAE049 XperCT OnSite Clin Ed
1	NNAE278 Heart Navigator OnSite Education
1	NNAE504 Clinical Education Program for Vessel Navigation
1	NNAE596 IXR StentBoost Imaging Systems OnSite Education

1 NNAE957 Clinical Education Program for SmartPerfusion

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	100237	Azunion 7. M20		
System Type: Freight Terms: Warranty Terms:	New FOB Destination Part numbers beginning with two (2) asteris are third (3rd) party items.			
Special Notations:	Contingencies must be removed 120 days t Any rigging costs are the responsibility of th		sure delivery on specifie	d date.
Additional Terms:				
Line # Part #	Description	Qty	Each	Price

1	**NNAE772	Azurion 7 C20	1	\$653,856.00	\$653,856.00
Advanced solution for vascular, non-vascular, embolization to interventional oncology procedures					

Key benefits

- Optimized utilization of your lab by procedure based workflow
- Superb image quality to evaluate small details and vessels with clarity.
- · Intuitive user interaction delivering an easy to use, easy to learn system

Changing interventions

With our Live Image Guidance we aim to remove barriers to safer, effective and reproducible treatments, delivering clinical value where it's needed most - at the point of patient treatment. Intelligent and intuitive integration of live imaging, patient information, and procedure-based applications optimize real time therapy guidance.

The 7 series C20 ceiling system is designed to enhance all the different procedures your interventional lab faces, from vascular, non-vascular and embolization to interventional oncology procedures. This future proof solution is designed around a single, standardized hardware and software platform that can be upgraded and expanded as new needs arise or requirements change. Its architecture is made to easily integrate with third party applications and devices. A new workflow approach aims to support interventional teams in carrying out procedures for their patients, consistently and efficiently with great ease of use.

The Philips Azurion 7 C20 uses a range of Procedure Cards to help optimize and standardize system set-up for your cases, from routine to mixed procedures.

Procedure Cards can increase the consistency of exams by offering presets (e.g. most-frequently used, default protocols and user-specified settings) on procedure-, physician- or departmental level. In addition, hospital checklists and/or protocols can be uploaded into the Procedure Cards to help safeguard the consistency of interventional procedures and help to minimize preparation errors.

The Philips Azurion 7 C20 interventional X-ray suite has been specifically designed to save time by enabling the interventional team to work on all activities in the exam room - and at one or more work spots in the control room at the same time - without interrupting each other. This leads to higher throughput and faster exam turnover and contributes to quality of care.

To improve dose management, Philips Zero dose positioning enables you to move the stand and table to the region of interest shown on the last clinical image hold before a new acquisition is started, without any radiation.

Specifications

The Philips Azurion series contain a number of features to support a flexible and patient centric procedural workflow.

The Phillips Azurion series (within the limits of the used Operating Room table) are intended for use to perform:

 Image guidance in diagnostic, interventional and minimally invasive surgery procedures for the following clinical application areas: vascular, non-vascular, cardiovascular and neuro procedures.

			00237 Azuniom 7 M20
Line #	Part #	Description	Each Assessment Price
M1170 //	•	•	ncluding diagnostics, interventional and minimally invasive
	The F	Philips Azurion 7 C20 system co	mprises five functional building blocks:
	2. X-t 3. Im 4. Us 5. Vie	ometry ay Generation age Detection er Interface wing functional building block is expl	ained in further detail including accessories.
	A, 7 (The F The 2 asse acces for ex	K-ray tube and the flat detector a mbly completely free from the fl ss to the patient. The robust des cample subtracted imaging proc noved in longitudinal direction a	stable assembly of a C-arm and a celling suspended L-arm. are integrated into the C-arm. This provides a compact oor, with maximal positioning flexibility and unrestricted sign ensures excellent reproducibility of projections, needed in redures and advanced 3D imaging. The L-arm can be rotated illowing a three-sided patient approach and total body
	- L-a - L-a This perip B, Pa	rm rotation around the patient ta rm longitudinal movement: 300 movement features auto-stops heral position. atient Support	cm at the parking position, cardio/neuro position and lower
	the n e.g. (repla	nono-bearing technology. The lo catheters and endovascular too	Int manual float movement, even for heavy patients, thanks to ong flat carbon fiber tabletop provides ample space to place ls. On customer request, the standard table top can be ocedures. This table top has a smaller width at the head end rocedures.
		Metal-free cantilever 125 cm Floating table-top movement	idth 50 cm (neuro table top is 45cm at head end) of 120 cm longitudinal and +/- 18 cm transversal range is 74 -102 cm cm for a table without swivel nor
·	•	Maximum cantilever of 223 cr Table tilt +17 /-17 degrees (or Table cradle +15 / -15 degree	otional)

- Pivot range 270 degrees (-90 to +180 or +90 to -180 degrees), table can i position and has stops at 0, +/-13, +/- 90 and +/- 180 (optional)
- Table swivel, 78.2 cm longitudinal displacement, motorized (optional).

 Maximum load: 275 kg (up to 250 kg patient weight plus 25kg accessories or 225kg patient weight plus 50kg accessories) plus 500 N for CPR in any longitudinal position of the table top

The UIM modules are not accessories; make consistent with "AD7 accessories Cardiac" The Philips Azurion system can be fitted with a comprehensive set of accessories to help you perform your procedures as conveniently as possible. Included are

1 cerebral filter

110/012/377 Avzuuritoxn 77 (MI240

Line # Part

Description

Qty

Each Price

- 3 rail accessory clamps
- 1 drip stand
- 1 Set of Elbow Supports
- 1 Set of patient Straps
- 1 Arm Support Board
- 1 Head Support
- 1 Mattress

The mattress is a slow recovery foam mattress with a density of 58 kg/m3. The mattress has a thickness of 7 cm and adapts to the body shape of the patient. It makes the pressure being divided equally and it recovers when the patient is taken off the mattress. The light yellow cover is easy to clean. Patients are more relaxed due to the comfort of this mattress.

- Table-mounted Radiation Shield
- · Anti-fatigue mat with Philips logo

2. X-ray Generation

A. Generator

The 7 C20 system comprises an integrated, micro-processor controlled Certeray generator based on high frequency converter technique. The user interface control of this X-ray Generator is incorporated in the touch screen module, review module, and the on-screen displays. The Certeray generator comprises:

- X-ray generator 100 kW
- Voltage range is 40 125 kV
- Maximum current 1000 mA at 100 kV
- Maximum continuous power for fluoroscopy: 1.5 kW

Program selection:

- Pulsed X-ray up to 3.75, 7.5, 15, 30, 60(optional) frames/s for digital dynamic exposures
- Frame rate extension to 30 frames per second.

Designed to enhance visualization of complex and pediatric interventions Frame rate extension to 30Fr/sec increases the system acquisition speed up to 30 frames per second for cardio studies requiring high speed imaging. Specifications

The frame rate extension increases the acquisition speed to 15fps and 30fps with a 1024x1024 matrix.

- Pulsed X-ray for pulsed fluoroscopy (3.75, 7.5, 15, 25, 30 frames/s).
- Minimum exposure time of 1 ms
- ECG triggered acquisition: allows acquiring one exposure for each QRS peak with selectable delay time
- · Automatic kV and mA control for excellent image quality prior to run to save dose
- · X-ray tube load incorporated in the Certeray generator
- Pulsed X-ray for (subtracted) acquisition up to 12 frames/s for vascular applications

Line # Part #	100237 Description	7 Azunion 7 M20 Qty	Each	Price
	ay tube	utry	Luch	1 1100
The 7	C20 system has the Maximus ROTA ntegrated.	LIX Ceramic grid switch tu	be assembly MRC200+ GS	
The M compr	RC 200+ GS 04 07 tube assembly a ises:	nd cooling unit CU 3101 fc	or cardiovascular systems	
•	0.4/0.7 mm nominal focal spot value: Grid switching at pulsed fluoroscopy improve image quality) Continuous loadability: 3400 W (at 2 assembly continuous heat dissipatio	and low load exposure (to 1 degrees C room temper	eliminate soft radiation and	
•	Application of SpectraBeam dose ma	anagement		
	Tube housing is oil cooled with them	F		
	Maximum anode cooling rate of 1820			
٠	Anode heat storage capacity of 6.4 [MHUenj		
C. Sys	stem intrinsic			
•	Fully digital imaging chain in maximi generator, x-ray tube, flat detector an		hnology of the x-ray	
•	Customizable EPX protocols to each composition of dose rate, pulse spee adaptive contour enhancement, ada	ed, filter setting, and Image		,
•	Built-in SpectraBeam filtering of low efficiency with MRC200+ X-ray tube		ve image quality and dose	
•	Pre-filters of 0.2, 0.5 and 1.0 mm CL	•		
•	Automatic cardiac wedge positioning	-		
·	X-ray depth collimator with single se positioning.	, -		
٠	Xper Beam Shaping, which means t Last image Hold without the need fo	r X-ray radiation.		
·	Xper Fluoro Storage, a grab function the last 20 seconds of fluoroscopy re as a regular run.			
D. Us	er selections			
•	removable anti-scatter grid to lower	x-ray dose for pediatrics (grid ratio 13:1)	
•	ECG triggered acquisition, offering t the heart cycle. This applies to the lo applications. This allows patient dos heart and let the physician still focus	he possibility to acquire in ow dose fluoro and exposi e reduction by lowering th	ages at the same phase of ure program for EP	
•	three programmable fluoroscopy mo mode has a different composition of processing (noise reduction, adaptiv	dose rate, pulse speed, fi	lter setting, and image	
Road	map Pro can be selected from the co	ntrol module.	ny or by colooffing on	

In the first Roadmap phase a vessel map is created by live fluoroscopy or by selecting an exposure image (SmartMask) with a vessel map which, in the second Roadmap phase, is superimposed with subtracted live fluoroscopy.

100237/Azumom 7 1020

Line # \Part # \Comparent Description

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Roadmap Pro features Smart Settings in special clinical modes that are optimized to visualize special materials such as colls and glue.

- Acquisition runs can be done without losing the vessel map of Roadmap Pro.
- Live processing of the vessel map, the device map and the landmark map can be done on the touch screen module.
- Field of View (FoV) can be altered during the second phase.
- Xres for vascular procedures is standard part of Roadmap Pro.

In Roadmap Pro "Automatic Motion Compensation" (AMC) is added to the roadmap functionality. During roadmap, small movements of the patient can lead to subtraction artifacts. These artifacts might conceal important clinical information. "Automatic Motion Compensation" compensates for rigid, uniform (skeletal/table) translations and is therefore very effective in interventional (neurology) applications where subtraction imaging is applied. Disclaimer: AMC only corrects movement artifacts in 2 dimensions. 3 dimensional movements like swallowing or rotation of the head cannot be corrected.

E. User dose awareness

DoseWise program: Philips DoseWise program is a set of techniques, programs and practices built into the X-ray system that ensures excellent image quality during each interventional application, while at the same time reducing x-ray dose at every opportunity. The DoseWise comprises of three building blocks to help reduce x-ray dose without compromising diagnostic quality: system intrinsic, user selection and awareness.

On-system monitor display provides and displays body zone specific Air Kerma data (10 zones for cardiac applications) in numeric and graphical bars.

- Graph displays the accumulated Air Kerma dose for the particular body zone of the actual projection
- When the accumulated Air Kerma dose of the particular body zone reaches the critical skin dose level of 2 Gy, it will be indicated on the display and made visible to the x-ray operator.

Radiation Dose Structured Report

Collection of dose relevant parameters and settings and export to a DICOM database (e.g. PACS) (dose information is sent in MPPS message not as Radiation Dose Structure report), according IEC60601-2-43, 2nd Edition. The reported data can be used for, for example:

- Quality improvement: evaluating trends in X-ray dose performance per facility, system and operator, RDSR enables analysis of average dose levels & variance for routinely performed exams and procedures. Also, typical system usage can be extracted from the data, helping to identify root causes behind deviations and measures to improve.
- Analysis of individual patient cases: using dose levels and system usage per procedure
- Alerting for high dose cases, timely identifying patients at risk or deterministic effects, for proper follow-up.

Secondary Capture Dose Report

The Secondary Capture Dose Report function allows the user to save & transfer, manually or automatically, a patient Dose Report to PACS in DICOM secondary capture format. The dose report will be stored in the related patient image folder.

100237/Avaultion 7/W120

Line # Part # Description

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3. Image Detection

The system has a 20 inch flat panel image detector. This detector can be rotated over 90 degrees from portrait to landscape and vice versa.

The image chain with the 20 inch flat panel image detector comprises the following:

- A 30 cm by 40 cm (20 in.) diagonal 8 mode Dynamic Flat Detector subsystem for fluoroscopy and cine-fluorography.
- 8 modes 30*38/30*30/26*26/22*22/19*19/16*16/13.5*13.5/11*11 cm, Dynamic Flat Detector
- The outer detector physical housing is 36 x 47.2 cm
- The digital output of the Flat detector is 1904*2586 pixels at 16 bit depth.
- The pixel pitch is 154 micron by 154 micron
- The DQE(0) is >77% providing high conversion of X-ray into a digital image, while maintaining a high MTF.

Philips Azurion offers a storage capacity of (optionally extendable) of 50,000 images at matrix size of 1024 x 1024, in 8 or 10 bit depth. With a matrix size of 2048 x 2048 this is 12,500 images. Maximum number of examinations is 999, with no limit to the maximum number of images per examination.

Xres is a multi-resolution spatial temporal noise reduction and edge enhancement filter for interventional applications. Xres exploits the full benefits of dynamic digital flat detector imaging to enhance sharpness and contrast and has been designed to reduce noise in fluoroscopy and exposure runs. The settings for Xres Cardio can be customized to improve image quality. Xres is a Philips unique mage processing algorithm developed at Philips Research for medical applications. Xres is used with Philips MR and US scanners next to Philips Azurion systems.

4. User Interface

User Interface in Examination Room

The User Interface comprises a variety of User Interface modules in the Examination Room. There is the On-Screen Display, the touch screen module, Viewpad and the control modules. The On-Screen Display is positioned on the left side of the live/ref monitor. The following system information is displayed:

- X-ray indicator
- X-ray tube temperature condition
- Gantry position in rotation and angulation
- Source Image Distance
- Table height
- Table top tilt and cradle angle, if applicable
- Detector field size display
- · General System messages
- Selected Frame speed
- Fluoroscopy mode
- Integrated fluoroscopy time
- Skin Dose: dose rate during X-ray, cumulated dose when no X-ray
- Dose Area Product: dose rate during X-ray, cumulated dose when no X-ray
- Graphical bars for Body Zone specific dose-rate and accumulated skin dose levels, related to the 2 Gy level (for cardiac applications
- Stopwatch

100237 Azzunion 7 M20

The pan handle is an extension of the control possibilities for floating movements of the table top in cardio vascular and neuro systems

Key benefits

- · Flexible positioning during cardio and neuro procedures
- Flexible positioning during cardlo and neuro procedures

To allow more flexible positioning during cardio and neuro procedures, the pan handle option can be used to perform floating table movements. The pan handle provides a solid grip of the tabletop and can release and apply the tabletop brakes. It can be attached anywhere along the tabletop and accessory rails without affecting the floating range. Specifications

Pan handle with cable and connector Table-top attachment clamp Accessory-rail attachment clamp Touch screen module

The touch screen module is provided for use at either the tableside or in the control room. Optionally, it is possible to connect in parallel up to three touch screen modules on the system. The touch screen module has a touch screen, which can be operated when covered with sterile covers. The touch screen module allows control of (depending on configuration):

- 3rd party equipment (e.g. CX50, Interventional Tools, EchoNavigator, DoseAware)
- Monitor layout (FlexVision, switchable viewing)
- X-Ray settings (Collimation, Projections, Table, Series and Processing)
- Quantitative Analysis (optional) User can only start QA from the touch screen module. No controls like coronary analysis, left ventricular and vessel analysis can be performed on the touch screen module.
 - Operation of Xcelera, XperIM and IntelliSpace Portal viewing (optional)
- Operation of CX50 Ultrasound (optional)

2nd Touch Screen Module

Key Benefits

Control system operations with a second touch screen module

Tablet-like touch screen control

During an intervention flexible control of applications and system operations can support fast decisions and communication with team members. The touch screen module provides fast, tabletlike touch response to control system operations. Up to three touch screen modules can be connected to the X-ray system: on the table, on the pedestal and in the control room. Specifications

The second touch screen module is similar to the standard touch screen module and provides touch screen control of displayed functionality. The following functions can be made available providing the relevant commercial options have been selected:

100237 Azunion 7 M20 -

Qty

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Price

Line # Part

- Description
- Acquisition settings
 Image processing controls
- Channel selection for MultiVision
- Automatic position control (optional)
- · Quantitative Analysis controls (optional)
- Xcelera and IntelliSpace Portal viewing (optional)
- · Interventional tool controls (optional)
- 3D-RA, Dynamic 3D Roadmap (optional)
- StentBoost, 3D-CA (optional)
- XperCT, XperGuide (optional)
- XIM physic monitoring controls (optional)

Connectivity:

A maximum of 3 touch screen modules can be connected to the X-ray system:

- · One touch screen module on the table
- One touch screen module in the Control Room
- · One touch screen module on the pedestal

Viewpad

The Viewpad contains the preprogrammed function settings. The system is provided with two Viewpads. The following functions are provided:

- Run and image selection
- File and run cycle
- · File overview
- Store to Reference image file
- · Copy image to photo file
- Digital (fixed) zoom and panning
- Recall reference images, which means switching control of Viewpad function from life to reference monitor
- · Laser pointer, intended to point at regions of interest on the image monitors
- · LED indication of laser pointer on/off and battery low
- Subtraction on/off
- Remasking
- Landmarking
- Access flat detector rotation

User Interface in Control Room

The control room comprises a review module, data color monitor and review monitor. The data and review functions are controlled by a single keyboard and mouse. The review module offers the basic functions for review. The most prominent functions can be controlled by the push of a button. The review module comprises the following functionality:

- Power on/off
- · File and run cycle
- File, Run, and Image stepping

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Line # Part

Description

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Run and file overview

- Reset fluoroscopy timer
- Enable/disable X-ray
- Geo disable

Acquisition monitor. A standard keyboard and mouse control the user interface. The acquisition monitor is intended to follow live case in the ER. System information is displayed on the bottom of the monitor:

- Stopwatch and Time
- System guidance information
- Dose Area Product (DAP) and Skin Dose, as dose rate during X-ray and cumulative dose at no X-ray
- · Frame speed settings, fluoroscopy mode, and accumulated Fluoroscopy time
- Exposure and fluoroscopy settings as Voltage (kV), Current (mA) and time (ms)
- · Geometry information as rotation, angulation, and SID

The acquisition monitor is designed for standard workflow based on scheduling, preparation, acquisition, review, report, and archive.

Scheduling

In the scheduling page it is possible to add new patients (either querying from RIS/CIS or by creating patient locally). The patients can be listed and selected per date, physician, and intervention type. Previous DICOM patient studies can be uploaded with the DICOM Query Retrieve function in the Philips Azurion system. Patient management protocols are flexible and allow

for multiple studies to be selected under one patient identification number. This means that new studies can be appended to an earlier patient file. Furthermore, each study can contain multiple examinations to allow for split administrative purposes. Each examination contains multiple files, like acquisition file, reference file, and QA results file.

Procedure Cards

Procedure Cards provide the information of room and patient preparation for each individual physician. Procedure Cards are customizable per setting and allow each physician to provide their own room protocols. Procedure Cards is intended to make hard copies of the protocol instructions redundant.

Acquisition

The acquisition page contains information on the currently selected patient.

Reviewing

The review page allows for reviewing of patients:

- · Previous examination cases
- Review of other DICOM XA or DICOM SC studies.

Quantitative Vascular Analysis

Key benefits

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- Allows quantitative assessment of different size vessels such as aortic and peripheral
- Aids confident decision making for device selection, approach angles and follow-up
- · Designed for efficiency with single click functions and fast results

Easily obtain objective assessment of aortic and peripheral vasculature to support decision making and allow quantitative assessment of vasculature during vascular interventions, the 2D quantitative vascular analysis option supports quantification such as aortic and peripheral artery dimensions of about 5 to 50 mm from 2D angiographic images. With one click, the relevant segment is detected and a visualization of the obstruction, healthy vessel, reference diameter, stenosis diameter and plaque area is created.

Specifications:

- Automated vessel segmentation
- · Diameter measurement along selected segment
- · Automated obstruction analysis
- Stenosis diameter, stenosis length
- % stenosis diameter, % stenosis area
- Automated and manual calibration routines
- Store result page

Analysis of the targeted vessel segment has been simplified with the single click function. Position the mouse on or close to the stenotic area and click once to detect the relevant segment. The visualization shows the obstruction, healthy vessel, reference diameter, stenosis diameter and plaque area.

Archiving

Clinical studies can be archived to a CD/DVD, USB or a PACS. The archive process can be completely automated and customized with settings. Parameters like multiple destinations, archive formats can be selected to the individual needs and wishes for programming under the settings.

With Philips Azurion the control room comprises of an acquisition monitor and a review monitor. The review monitor is a 24 inch color TFT-LCD medical grade monitor. The Graphical User Interface on the Review monitor has the following features and possibilities:

- Step through file, run, or images
- File, and run overview
- Contrast, brightness, and edge enhancement settings
- · Flagging of runs or images for transfer
- · Applying text annotation in images
- DICOM printing if available
- Executing Quantitative Analysis Packages if available
- Subtraction functionality if available

This system is delivered with printed instructions for use and/or electronic instructions for use, as well as a quick start leaflet. A printed paper instructions for use can also be ordered at no additional cost.

5. Viewing

A. Viewing in Examination room

		100237 A	zunion 7 10120		
Line #	Part #	Description	Qty	enter Each and the second second	Price
	for clii exam vlewir contro The C displa Field	Azurion systems come with one 27 inch nical image display in the Examination ro nation room and is designed for medical og of live images and reference display. S olled by the infra-red remote-control view on-Screen Display provides status inform y of system messages, X-ray tube load s of View, and both the rate and accumulat nain characteristics are:	om. This LCD monitor is applications. The monit election and storing of I bad or via touch screen ation on stand rotation-a tatus, selected fluorosci	s intended for viewing In the ors is used for combined live to reference monitor is module. angulation, table height, opy mode, selected detector	
	•	27 inch high brightness color TFT-LCD of	tisplay		
	•	Native format 1920x1080 Full HD			
	٠	10 bit gray-scale resolution with gray-sc	ale correction		
	•	Wide viewing angle (approx. 178 degree	es)		
	•	High brightness (max 650 Cd/m2, defau	lt 400 Cd/m2)		
	•	Long term luminance stability through b	acklight stabilization circ	cuit	
	•	Automatic brightness control with backli	ght sensor		
	٠	Control functions on side			
	•	User programmable and standard refere	ence setting		
	٠	On-Screen Display	1. I C C D		
	•	Internal selectable lookup table for gray	-scale transfer function,	Including DICOW	
	•	Internal power supply (100-240 VAC)			
	•	Integrated LCD protection screen			
	moto range 6 fold	licable included is a flat monitor ceiling s ized height adjustment. The ceiling susp of about 360 x 300 cm. At customer req MCS or an MCS integration kit HD for n ins vital parts for system operation.	ension allows flexible m uest, this 2 monitor MCS	onitor positioning over a S can be replaced by a 4 or	
		ewing in Control room s Azurion includes two 24 inch high brigh	itness color LCD monito	ors. The color monitors are	
	for ac	quisition and reviewing display.			
	The r	nain characteristics for color monitor are:			
	_	14 inch color TET LOD display		4	
	•	24 inch color TFT-LCD display Native format 1920x1080 Full HD			
	•	High brightness (max 400 Cd/m2, defai	ut 350 Cd/m2)		
		Wide viewing angle (approx. 178 degre			
	•	Long term luminance stability through b		cuit	
	•	Automatic brightness control with backi	+		
	•	Control functions on side			
	•	User programmable and standard refer	ence settina		
	•	On-Screen Display			
	•	Internal selectable lookup table for gray	-scale transfer function,	including DICOM	
	•	Internal power supply (100-240 VAC)In			

A Philips Azurion system includes the DICOM Image Interface which enables the export of clinical images to a DICOM destination like a CD-Medical station or a PACS server. The export formats are based on DICOM 3.0 protocols. The system exports clinical studies in Cardiac DICOM XA Multi-Frame or DICOM Secondary Capture formats.

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The DICOM Image Interface transfers through its fast Ethernet link, making images available online within seconds. The archive process can be configured by X-ray settings. The images are sent out either in the background, or manually upon completion of the examination. The export format is configurable in 512x512 or 1024x1024 matrix in 8 or 12 bit depth. The examination can be sent to multiple destinations for archiving and reviewing purposes. The DICOM image Interface provides DICOM Storage and DICOM Storage Commitment Services. The DICOM Query/Retrieve function allows older DICOM XA MF and DICOM SC studies to be uploaded in the system. Furthermore, additional information can be appended to a study while keeping the patient identification the same.

Remote Intercom for the Azurion System. The option includes a separate intercom, which is connected independently from the system. This allows placement of the intercom at the preferred working position in the control room and examination room. The listen function can be separately selected on each intercom. Activating the talk function on a selected intercom automatically disables this function on the other intercom.

Uninterruptable Power System (UPS)

Ensures data integrity

A power failure of the hospital mains during an intervention can cause loss of data. If this occurs, the single phase Uninterruptable Power System (UPS) enables a proper shut-down of the X-ray system processor units.

Specifications

In case a full three phase UPS is selected, the single phase UPS is not delivered.

Remote service

Access to the system from a Remote location is possible via network or modem connection. Remote access to a system can shorten the time needed for e.g. changing system settings or problem diagnosis.

Environmental

At Philips Healthcare, we feel the responsibility towards society and the environment. The latest 7 C20 system is a perfect example of our EcoVision program. By examining every aspect of the 7 C20 design and development through a green eye, we drastically reduced the products environmental impact.

System & table APC

Helps to save time and manage X-ray dose with automatic positioning

Positioning the X-ray system to visualize relevant anatomy from different perspectives can Involve a great deal of time and many scout images during interventional procedures. To help save time and manage X-ray dose while working, the Automatic Position Controller (APC) provides an easy way for interventional team members to store and recall stand-related positions.

Specifications

The system APC stand and table positions need to be stored and recalled separately.

Clinical Education Program for Azurion System:

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Line # Part #	Description	Qty	Each	Price M
customized de	of the Azurion System Include livery of educational events to s, and Improve overall lab eff	o improye staff time to pro	ficiency, knowledge on	

educational events includes:

Essentials OffSite Education: Philips will provide up to two (2) Cardiovascular Technologists, Registered Technologists, Registered Nurses, or other system operator as selected by customer, with in-depth didactic, tutorial, and hands-on training covering basic functionality and work-flow of the cardiovascular imaging system. 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. 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. This class is a prerequisite to your equipment handover OnSite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. In the event that an EP Navigator workstation has also been ordered, the offsite training course will be tailored to focus on the electrophysiology functionality of the FD system and the EPN workstation. Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292102 (CV Full Travel Pkg OffSite) is purchased with all OffSite courses

Initial Handover OnSite Education: The primary Philips Education Specialists will provide twentyeight (28) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 28 hours, and must include the two OffSite education attendees. 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. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. It is highly recommended for systems that are fully loaded or for customers with a large number of staff members to also purchase 989801292099 (CV Add OnSite Clin Educ 24h).

FollowUp OnSite Education: Philips Education Specialists will provide sixteen (16) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 16 hours, and must include the two OffSite education attendees. 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. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. Assessment OnSite Year 1: The primary Philips Education Specialist will perform a two day onsite assessment at the customer site on or close to the first anniversary of the Initial Handover. The Specialist will assess through various means not limited to; physical observation of procedure workflow, tool usage data analysis and staff interviews. The Specialist will then review findings with department head and make recommendations thereof. The Specialist may perform refresher training if required.

Education expires one (1) year from installation date (or purchase date if sold separately). Ref#296339296340296341296342-20170209

2 **NNAE751 Intrasight Interventional 5	1	\$112,681.80	\$112,681.80
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Line #	Part #	Description	Qty	<u>.</u>	Each	Price
	IntraSight 5 is a your lab. This p providing these efficient data m cybersecurity p is fast to learn Includes IntraS Power Supply, Imaging (IVUS ChromaFlo IVU	ight CPU, CPU Base, Opera Connection Box, Mouse, Ke) License. Includes IntraSig JS. cludes PIM, Cabling, and PIN	d platform desig is physiology an traSight platform is, remote servic e learning curve itor's Manual, Po yboard, 19" Mor nt IVUS Softward i holder.	d imaging to n also optim e diagnostic with a mod ower Transfo ower Transfo itor Kit, DIC e package: I	ols. In addition to izes lab performance ern, intuitive interface ormer, Cable Pre-Inst OM Network Connec Digital, Rotational, an	with e that call Kit, ction. d
	Free Lesion As	R/FFR) License. Includes In seessment Modality, FFR Mo ing, FM-PIM holder, and FM- Module (TSM). Table side to	dality, IFR Optio PIM to Verrata \	n Manual Fl Nire Adapte	FR 2.5. r.	
3	**NCVD069	ClaritylQ.		1	\$116,550.00	\$116,550.00
	Significantly lo	wer dose- across clinical are	as, patients and	operators.		
	 Enhanced wo 	maging at low dose levels ork environment for staff thro atment options – enables long e	ugh active mana ger procedures l	agement of s o treat obes	scatter radiation e and high-risk patie	nts
	Interventions a the need for hi harder to posit increased dos the balance in	dence every time are becoming increasingly co igh resolution imaging. New (tion them precisely. The prev e levels to visualize anatomy interventional X-ray with Allu	devices can be r alence of patien . All of these fac ıraClarity.	nore difficul ts with a hig tors inspired	t to visualize, making h BMI can also requi l us to completely rec	it re define
	treatment. Wh way of working	vith its unique ClarityIQ techn at's more, you can confident g. In short, you can see what	ly manage low ≯	K-ray dose le	evels without changin	during g your
	 Noise and ar Image enhar Automatic re A flexible dig Over 500 clin radiation and 	nology is the foundation of P tefact reduction, also on mov neement and edge sharpenin al-time patient and table mot ital imaging pipeline from tub nically fine-tuned system par- use smaller focal spot sizes a ube and accompanying gene	ving structures a g ion correction of e to display that ameters making and shorter puls	nd objects n live image t is tailored f it possible t	s or each application a o filter out more X-ra	у
4	**FCV0588	isolated Wall Connect	on Box	10	\$1,381.80	\$13,818.00

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Line	# Part #	Description	Qty	Each	Price
	Isolated Wall C the examinatio	connection box to support the disp n room.	ay of an external v	ideo source on a monito	r in
		from other modalities on the inter mal video in the exam room	ventional X-ray suit	e:	
	Many intervent interventional facilitates conn of the video sig	video to other locations tional facilities use video to record X-ray suite for training or presenta nection of the video source via a st gnal over the approximate 30 mete nom or in the control room, depend	tion purposes. The andard DVI cable/c er long cable. It can	Video Wall Connection connector and lossless t be mounted in the	Box
	For each video For each video For each video	s f the VWCB's has to be calculated o signal via MultiVision: 1 VWCB (i o signal to FlexVision XL on Cardio o signal to FlexVision XL on Vascu party video signal directly connected	nax = 4) o System: 1 VWCB lar System: 1 VWC	B (max = 8)	
	No VWCB is re following sourc 1) Live/ref Slav 2) Intervention				
5	**NCVD061	optional ref monoplane	1	\$4,628.40	\$4,628.40
	Additional Ref	2 and Ref3 viewport			
	Simplify work Having patient making and ef output of the X Combined with	y any data or clinical information n (flow with flexible viewing cont r t data and clinical information easi fficiency during interventions. Opt ζ-ray system offering an additional h the Dual Fluoro license this enal he Dual Fluoro linage γisible on th	ol ly available on scre onal ref monoplane Ref2 and Ref3 vie bles users to zoom	en can enhance decisic offers an additional vid wport on one LCD moni	eo tor.
6	 Aids confide 	Quantitative Coronary Anal litative quantification of coronary a nt decision making for device sele r efficiency with single click functio	rtery dimensions ction, approach anç	\$6,804.00 gles and follow-up	\$6,804.00
	To support de 2D quantitativ to 6 mm from	objective assessment of coron cision making and allow assessme e coronary analysis supports quar 2D angiographic images. With on of the obstruction, healthy vessel, i	ent of vasculature d tification of corona e click, the relevant	ry artery dimensions of segment is detected ar	about 1 Id a

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area is created.

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Specifications

- Automated segmentation of selected coronary
- Diameter measurement along the selected segment
- Automated obstruction analysis
- · Stenosis diameter, stenosis length
- % stenosis diameter, % stenosis area
- · Automated and manual calibration routines
- · Store result page

Analysis of the targeted vessel segment has been simplified with the single click function. Position the mouse on or close to the stenotic area and click once to detect the relevant segment. The visualization shows the obstruction, healthy vessel, reference diameter, stenosis diameter and plaque area.

7 **NCVA694 Subtracted Bolus Chase 1 \$19,471.20 \$19,471.20

Helps to visualize vessel structures when blood flow is difficult to estimate.

Key benefits

• Bolus Chase improves results in case of challenging step movements, a mismatch between blood flow and selected program, or lack of real-time image information.

During digital acquisition in non-subtracted mode with uninterrupted real-time image display, the contrast bolus is followed (chased) interactively by a motorized table scan movement using a hanbd-hold speed controller to adapt the speed of the table scan to the contrast flow. With biplane systems, this Bolus Chase is applied with the lateral channel.

Specifications

• Framespeed can be adapted.

• Bolusrun is followed with a maskrun, using the same speed curve and framespeed that was generated during the bolusrun.

• Viewing is possible in the subtracted and non-subtracted mode. If subtracted viewing is not required, the maskrun can be skipped.

Subtracted Bolus Chase gives fast, accurate results high patient throughput and efficient patient management.

• Automated exposure control and precise speed control generate high quality images and excellent subtraction cases.

8	**NCVA101	peripheral X-ray filter	1	\$1,222.20	\$1,222.20
 Obtain uniform density of lower peripheral areas 					

Enhance consistency of lower peripheral images

To help clinicians obtain consistent images of lower peripheral anatomy, this option provides a set of flexible X-ray filters. They provide uniform density in anglographic examinations of the lower peripheral area.

9	**NCVA783	table pivot option	1	\$4,326.00	\$4,326.00
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Flexible positioning for upper extremity anglography

Easy patient transfer

Flexible positioning and transfers

Transradial access, upper extremity angiography, and patient transfer have never been simpler with our optional Pivot feature. One finger push-to-pivot allows effortless patient positioning. It moves with less friction, making it easier to move larger patients. A secure mechanism locks the tabletop in place to prevent it from moving.

		100237/Azu	rion 7 M20		
Line #	Part #	Description	Qty	Each "Manage	And Price
10		Left Ventricular Analysis ative quantification of left ventricula efficiency with single click functions		\$9,710.40	\$9,710.40
	To support declinterventions, the volumes and lo	objective assessment of coronar ision making and allow quantitative he 2D Left Ventricular Analysis opti ical wall motion from anglographic on parameters in different formats. I nd manually.	assessment of an on supports quant series. It calculates	ification of left ventricu s the ejection fraction a	
	 Ejection Fract Cardiac Outpoint Centeriine Wait Slager Wall Wait Automated and 	lumes: ED, ES, Stroke Volume tion ut all Motion lotion nd manual calibration routines ation facilltates image selection for	analysis		·
11	lay outs and fu systems. Key benefits - Full control at module - Full flexibility - To simplify an	extension to FlexVision Pro exvision large 58 Inch high resoluti Il control (seamless mouse) of up to table side of all applications with s of screen layouts (live resize, drag id standardize system set-up for yo natically with ProcedureCards.	o 11 external source seamless mouse co and drop, unlimite	ces including third party ontrol or via touch scre d number)	en
	mouse in Exan module in the I	e control n Pro, user can control FlexVision a nination Room as well as virtual ke Examination Room. An operator ca sedure without going into configural	yboard and touchp n resize Images ar	ad on the touch screet	n
	wireless mouse • Integration: c • Possibility to • Screenshots; • Live resize th into configurati • Operate all th	able side of all applications in the i e or with a Touch Screen Module ontrol of up to 11 external sources configure unlimited flexible screen with single click all displayed input e video window and adjust the scree	layouts ts can be captured sen layout during t nonitor using the v	he procedure without g vireless mouse at table	going
	*****	·		¢40.000.00	\$40 DOC CO

12 **NCVD072 SmartMask Monoplane 1 \$10,386.60	\$10,386.60
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Line # Part #	Description	Qty	Each	Price
Enable	efits es roadmap procedures by over s roadmap procedures to manag om an acquired series as a mask	e radiation dose and co		
SmartMa image in Specific The refe SmartMa image ca	s navigation during intervention ask simplifies roadmap procedure the Live X-ray window. ations rence image can be faded in/out ask uses the reference image dis an be used as reference. SmartM reatment results.	es by overlaying fluoros with variable intensity, o played on the reference	copy with a selected ac controlled from tableside monitor. Any previously	quired ə. y acquired
13 **NCVD08	1 Touch Screen Module	e Pro 1	\$24,355.80	\$24,355.80
	n of Touch Screen Module for ea			+
- Clinical finger. P swiping	efits g parameters can be quickly and i image are shown to support eas inch, zoom, pan and flag images the image on screen. ly settings can be easily adjusted	sy navigation. Collimate for processing. Position	on the clinical image w n shutters and wedges b	by simply
This opti source i wedges		ne touch screen module, to be displayed on the to th a fingertip by simply d	buch screen module. Sh Iragging them into positi	utters and ion. A

Specifications

- enhance image navigation on the TSM
- Intuitive control of shutters and wedges by simply dragging the lines shown on top of the image
- provides intuitive zooming an panning functionality (also during fluoroscopy)

- turns the touchscreen into the pointing device in order to improve communication in ER/CR: when activated the pointer is shown on corresponding monitor

III Note: Touchpad and Keyboard control from the TSM is NOT part of this option but 'FlexVision Pro' option.

III Note; Images shown on the TSM are not meant for diagnostic purposes (image is downscaled, compressed and latency during live/replay maybe higher than on the live monitor)

14	**NCVD078	FD Dual Fluoro monoplane	1	\$17,052.00	\$17,052.00
	An additional	fluoro channel in parallel to the standard	fluoro chann	el	
	Key henofite				

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· View the subtracted fluoroscopy next to the default non subtracted fluoroscopy

· View a digitally zoomed fluoroscopy image next to the default fluoroscopy image

Second fluoro image to support complex interventions

For complex interventions, it can be useful to view the subtracted fluoroscopy image next to the normal fluoroscopy image. The Dual Fluoro option provides an additional fluoro channel in parallel to the default fluoro channel. The dual fluoro option allows to view live digitally zoomed fluoroscopy next to non-zoomed fluoroscopy.

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Line #	Part #	Description	Qty	Each	Price
	The trace sub image is displ In Dual Fluorc the region of i on the live vie		isplayed on the live view port. nage can be zoomed di ons. The zoomed live flu pomed image will be sho	vport, the non-subtract gitally, providing a larg uoroscopy image will b wn on the reference 3	er view of e shown
15	**NCVD032	FlexVision XL HD + 2 L	CD's 1	\$100,279.20	\$100,279.20
	viewing enviro This FlexVisio	HD is an integrated viewing onment which brings High De on XL HD is delivered with two e monitors can be mounted or	finition viewing. 27 inch high brightnes	s color medical grade	
	decision maki • Create custo • The screen	ss multiple, up to 8, video inpo ing during procedures om display templates to supp layout of the FlexVision XL H ges to reveal more details an	ort diverse procedures D can also be changed t	from the control room	to inform
	In today's inte complex anat decision make HD. You can screen. Zoom Create custor diverse proce Specification FlexVision XL • Native resol • Sharp image • High Definit • Up to 2k*2k	าร	form more complex pro es of diagnostic informati offers an advanced digi ariety of custom layouts etails, while maintaining fic procedures/physician ed. n for ultimate detail	ion to guide you. To inf tal workspace called F on a large, high-defin an overview of all info	form TexVision ition LCD prmation.
	 DVI video of The DVI vide connected me backlight in the The DVI vide The DVI vide The DVI vide Up to 11 exitority Up to 11 exitority Medical gradients Medica	composition unit. o composition unit allows the edical equipment to specific s ne Examination Room. leo composition unit is operat leo composition unit supports ternal inputs are connected to ade, high resolution color LC supports the image quality red and replaces all displays nor eristics are: //egapixel color LCD lution: 3840x2160 Max: 700 Cd/m2 (typical) sta	bub windows of the Philip ed from the touch scree a wide variety of display the DVI video composi D in the Examination Ro quirements for monochro mally dellvered with the	os 58-inch color LCD v n module, y formats (up to 1920x tion unit via wall conne oom ome X-ray images as v	vith LED 1200) action box well as
	- Contrast rai	tio: 1:4000 (typical)	· ··· ··· ···		

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Line #	Part #	Description	Qty	Each Bach	^{selectives to} Price st
	- Constant bright - Lookup tables f	ngle (approx. 176 degrees) ness stabilization control for gray-scale, color and DICOM transf screen Ingress Protection: IP-21	er function		
	 Enlarge Informa Room or Control Select viewing 	CD control (touch screen module) ation at any stage during the case via t Room. lay-outs via the touch screen module in outs by matching inputs to desired loca	n the Examir	nation Room.	mination
	 Adjust the screit 20 layouts; each 	en layout during the procedure without h layout is customizable, size of viewp le with all X-ray details	going into c	onfiguration	r X-ray
	Monitor ceiling s providing highly and moveable a	uspension uspension for use in the Examination F flexible viewing capabilities. The monit long ceiling rails. It can be positioned o	or ceiling su	spension is height-adju	, stable
	5. Snapshot The snapshot fu FlexVision HD a	nction allows the user to store/save a s s a photo image to the current acquisit	creen-captu ion patient s	re of any image on the tudy.	
16	**980406041009	Rad Shield w/ Arm (Contoured) 61X76	2	\$2,469.60	\$4,939.20
	Contoured Rad	Shield with Arm rest. 61X76			
17	**989801220012	Cable Spooler	2	\$340.20	\$680.40
18		M LED 3MC Light LED - Multi Color / power Supply Includ ra2 Ext Spring Arm 75/90cm	2 led	\$10,067.40	\$20,134.80
19	**989801220273	Ceiling Track w/Column & Handle Ext	2	\$3,704.40	\$7,408.80
	Mavig 2.5m Cei	ling Track with Celling trolley, 360 degr	ee column, a	and brake handle exter	ision.
20	**989801220375	Black Anti-fatigue Floor Mat w/logo. Je Floor Mat with Philips Logo	2	\$168 <i>.</i> 00	\$336.00
	DIACK Anti-latige	te i luoi mar mur i miljo rogo			
	36" x 60"				
21	**989801220380	Full Load Remote UPS	1	\$37,443.00	\$37,443.00
	MGE Galaxy 50 and optional sid Cabinet with on High Voltage 6 MGE GALAXY MGE SNMP/W Top Feed Auxill In the event of a	00 80 kVA Full Load – 40kW UPS with le panels, ISX0001369526 G5TUPSU8 e full string of batteries and standard G Alarm Relays Card 5000 Remote Alarm Status Panel eb Communication Card ary Cabinet a power loss the UPS provides emerge e and fluoroscopy for up to 15 minutes.	0KPAdjacer alaxy 5000 ncy power to	it MGE Galaxy 5000 Ba Adjacent battery Temp	attery sensor.
22	SP059Q	Clinical Services Flex Account	1	\$20,000.00	\$20,000.00
	Flex Training \$	20,000 (non-discountable)			
		,			Dage 24 of 42

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Each	00237/Azunien 7/M20 Qty	Description	ine # "Part #
	count Agreement	nical Services Flex Acc	SP059Q Cli
mencing on the warranty	table clinical training ("Training") o	ay request non-discount	Customer m
	ars ("Training Contract Period") fi	r a period of three (3) ye	start date for
		illable at the time Trainin	

As Customer requests Training, the Flex Account balance will be reduced by Philips pursuant to the then current published and non-discountable list price for a given Training, multiplied by the number of Trainees scheduled to attend.

Subject to the terms and conditions in this Agreement, Philips will provide requested Training during the Training Contract Period until the monetary level of training is exhausted or falls below the then current published and non-discounted list price of the requested Training. Training coverage expires at the end of the Training Contract Period and no credit for any unused funds may be carried forward to the next year.

Course catalogs include:

- Guided pathways to clinical excellence: Imaging Systems continuing education course catalog
- Education designed around you: Ultrasound course catalog
- Phillps online Learning Center: www.phillips.com/learningcenter
- Some additional clinical education programs may apply

Selections can be made across one or any of these modalities: Computed Tomography (CT), Cardiovascular (CV), General X-Ray (GXR), Hybrid, Magnetic Resonance (MR), Nuclear Medicine (NM), CT Simulation and Treatment Planning (Oncology), and Ultrasound.

Philips Training may be conducted at Philips training facilities, the Customer location(s) listed below in this Agreement ("Customer Site(s)"), through on-line or remote training, or at a third party location as determined by Philips. Customer is responsible for scheduling Training for its employees ("Trainee(s)"). Philips will make reasonable efforts to accommodate Customers scheduling requests. All Training is subject to availability. Philips reserves the right to cancel or reschedule courses at its sole discretion.

Trainee(s) must meet the minimum admission requirements set forth in the course syllabus, must satisfy all prerequisites prior to admission and may be required to sign or acknowledge Philips safety checklist prior to receiving Training. PHILIPS MAKES NO WARRANTY THAT ANY TRAINEE WILL PASS ALL OR ANY PORTION OF THE TRAINING COURSES PROVIDED OR THAT THE TRAINING WILL RESULT IN ANY TRAINEE BEING QUALIFIED OR ABLE TO OPERATE THE SYSTEM.

Unless otherwise indicated in this agreement, all travel and living expenses incurred by the Trainee(s) will be the responsibility of the Customer.

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To receive remote training Customer must provide Philips a secure location to store a Philips remote services ("PRS") router (or a Customer owned router acceptable to Philips) for connection to the products and Customer network; provide Philips appropriate access to the PRS router to enable Philips to access the products remotely; provide Philips with a dedicated broadband Internet access node including, but not limited to, public and private interface access suitable to establish a successful connection to the products through the Philips PRS and Customers network for Philips use in remote training, transmitting automated status notification from the products and

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Line #	Part #	Description		⊋ty	Each	Price
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 new services). Unless Philips determines in its sole discretion that the products cannot be connected to the PRS, then Customer's failure to provide the access described in this paragraph will constitute Customer's waiver of its rights to remote training under this Agreement. Customer must identify, in writing, one (1) Customer representative to Philips who will manage and be responsible for Customer's selection and scheduling of all Training to be provided by Philips.						
23	SP019	Trade in Allowar	ice	1	(\$2,600.00)	(\$2,600.00)
	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.				s, good ch trade	
	Product: Serial Number:	Siemens AXIOM				
	Manufacturer:	SIEMENS MEDICA	L SOLUTIONS USA	INC		
	Trade-In authoriz	ation number:	103541			
	Trade-In Value:		\$2,600.00			
	De-install Date:		8/31/2019			

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 deidentified 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.
- Prior to the Removal Date. Customer shall remove from the room all equipment that is not being de-9. installed.

SEBLRSVNP1 1 24 **Customer Note** Pricing subject to change based on Ascension contract

	<u>IIUU</u>	9/2/3////AV2010100001/// 119/	20	
	,			
	NET PRICE		\$1,218,558.00	
Buying Group:	ASCENSION HEALTH RSMG	Contract #:	ME000001113	
Addt'l Terms:				
and any specific	solution will reference a specific Buying Grou terms and conditions which will apply to that nd Conditions of Sale will apply to the quoted	single guoted solution. If r	enting an agreement containing discoun o Buying Group/Contract Number is sho	ls, fees wn,
Each equipment each transactior	t system listed on purchase order/orders repr n is to be individually billed and paid.	esents a separate and dist	nct financial transaction. We understan	d and agree that
Price above	does not include any applicable sale	es taxes.		
The prelimina	ary delivery request date for this equ	lipment is:	·	
If you do not	issue formal purchase orders indica	te by initialing here	·	
Tax Status:				
Taxable	Tax Exempt			
If Exempt, pl the certificate	lease indicate the Exemption Certific e.	ation Number:	, and a	attach a copy of
Delivery/Inst	allation Address:	Invoice Ad	dress:	
Contact Pho	ne #:	Contact Pl	ione #:	
Purchaser a	pproval 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.

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Line #	Part #	Description	Qty	Each	Price Initial
1	**FCV0834	coupling to video switching	1	\$6,556.20	\$6,556.20
	 Key benefits Easily display all 	ny data or clinical information need	led to work eff	ilclently	
	Simplify workflo Having patient da making and efficie	w with flexible viewing control ata and clinical information easily a ency during interventions. Coupling outputs (e.g. interventional tools,	vailable on sc g to Video swi	reen can enhance tching enables co	upling of
	 Specifications Video splitter box to enable coupling of maximum 4 color outputs (e.g. Interventional tools, Xcelera, XperIM and IntelliSpace Portal) to the switching concept from our partner. In combination with the MultiSwitch option, the Video splitter box is used to connect a maximum of 3 workstation with a total power dissipation of maximum 1380 W. For the remaining workstations, up to 4 in total, a second video splitter box needs to be ordered. In addition, 4 splitter units are delivered to enable coupling of up to 4 of the X-ray system Live and Ref signals to the partner video switching system. The partner system provides fully galvanically isolated DVI extender cables to connect these signals. 				
2	**NCVC466	VesselNavigation Complete	1	\$86,709.00	\$86,709.00
		ation Complete package consists (and 3D Roadmap.	of VesselNavig	gator, 3D-RA, 3D-	RA on touch
	 VesselNavigato 	mage Guidance solution for endov r supports navigation through com rovides full 3D view to enhance na	plex vessel st	ructures.	and coils

through complex vessel structures.

Complete Live Image Guidance solution for endovascular procedures

VesselNavigator Complete provides a complete Live Image Guidance solution for endovascular procedures, allowing you to plan, perform, and follow-up procedures with confidence. It consists of VesselNavigator, 3D-RA, 3D-RA on touch screen module, and 3D Roadmap.

VesselNavigator allows you to reuse 3D vascular anatomical information from existing CTA and MRA datasets as a 3D roadmap overlay on live 2D fluoro images. With its sophisticated visualization, it provides an intuitive and continuous 3D roadmap to guide you through vasculature during procedures. Using 3D Roadmap you can also create an overlay with a 3D contrast enhanced angiography volume. It provides real-time 3D views of the advancement of the guide wire, catheter, and coils through complex vessel structures. 3D Roadmap features automatic motion compensation for neuro exams.

Specifications

VESSELNAVIGATOR

The essential components of VesselNavigator are:

• 3D roadmap navigation with a personalized visualization of a CT or MR overlay of the selected vasculature on live fluoro.

- Both 2D and 3D registration for CT or MR image fusion
- · Easy, intuitive four step workflow, with one click vessel segmentation
- Ring markers to easily indicate the ostia and landing zones.

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OPTIONS

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Description Qty Each Price Initial Line # Part # VesselNavigator provides the following functions: One click vessel segmentation 3D landmarks Plan angles 2D registration 3D registration Live image guidance; Real-time overlay of the 3D Vessel segmentation on the live 2D X-ray images from the X-ray system of the same anatomy. Table tracking Table side control VesselNavigator movies and snapshots can be stored/archived on: A PACS systems as DICOM Secondary Capture images or movies.

- USB device.
- One or multiple DVD's, CD-ROM(s) for easy archiving.
- Hard copy via the (DICOM Print) protocol.

3D-RA

3D-RA (3D Rotational Angiography) provides extensive 3D visualization of anatomy and vessels in just four seconds based on one rotational angiography run and one contrast injection. Its high-resolution 3D reconstructions provide critical information about depth and the relationship of one vessel to another to support the accurate assessment of anatomy and vasculature.

Image Acquisition

Image acquisition is performed with the Rotational Angiography feature of the X-ray system with the flexibility to position the C-arm in either head or side position.

C-arm in head position: scan range of 240 degrees with a rotation speed up to 55 degrees/sec. C-arm in side position: scan range of 180 degrees with a rotation speed up to 30 degrees/sec.

3D Vessel Reconstruction

The rotational run is automatically transferred and displayed as a 3D vessel model: with the Real-Time digital link (option) 120 images are reconstructed into a 3 dimensional model within seconds. Additional reconstructions, using the Reconstructive Zooming Technique, can be performed as well.

Workflow

Automated 3D-RA process from 3D acquisition to 3D Viewing, 3D at touch screen module (option), 3D Automatic Position Control (3D-APC), 3D Follow C-arc.

Calibration 3D-RA calibrations are performed by Philips Customer Support. 3D-RA calibration data are stable over at least 6 months' time.

Viewing Real Time user interface. Philips' CRM (Contrast Resolution Management) Technology. Image rendering: • Volume/Surface Rendering,

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Line # Part #	Description	Qty	Each	Price Initial
• MIP,				
• Endo	scopy,			
• SUM	(pseudo X-ray image)			
 Grad 	ient rendering,			
• Cut-p	lane function,			
Ortho	oviewer,			
• MPR	(Multi-Planar Reformatting),			
 Spine 				
• 5 dis	ance measurements calculated in the sa	ame volume, includii	ng "Quick measurei	ment".
 Volur 	ne calculation	-		
	nated Vessel Analysis (AVA),			
	puter Assisted Aneurysm Analysis (CAA/	A),		
	eter tip shape simulation,			
	al stenting,			
• Anno				
	polative Zoom			
	onstructive Zooming Technique,			
 Subt 	raction of reconstructed volumes,			

- Automatic Voxelshift,
- Set grey values WW/WL,
- · Store/Recall of user defined projections.

3D-RA ON TOUCH SCREEN MODULE

From the 3D-RA menu on the touch screen module, you can rotate, translate, and take snapshots of images. Views can be stored and recalled. You can select 3D-APC (3D Automatic Position Control) and follow stand mode.

Other 3D-RA functions on the touch screen module:

- Start mouse mode
- Segmentation (window-width/window-level control)
- 3D zoom control
- Recall Anterior-Posterior view

3D AND MR/CT ROADMAP

3D Roadmap overlays real-time 2D fluoroscopy images on a 3D reconstruction of the vessel tree acquired with 3D-RA or XperCT, both available on the X-ray system or previously acquired CT/MR data of the vessel tree. The resulting roadmap shows the progress of a guide wire, catheter, or coil in real-time. It is designed to improve visualization and navigation for complex neuro, vascular, and oncology interventions.

Specifications

3D Roadmap is based on the visualization of the vessel tree from 3D-RA acquisitions. The MR/CT roadmap is based on visualization of the anatomy on previous acquired CT or MR data sets. Both are activated with one button touch at tableside.

Viewing:

• Table side control: bidirectional link between the X-ray system and 3D Roadmap,

- 3D Automatic Position Control,
- · 3D Follow C-arc,
- The 3D roadmap provides the freedom to change:
- o The angulation of the C-arc,
- o The rotation of the C-arc,
- o The Field of View,

410.0/2/37/ Avaunion 7/ W1210 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. Price Initial Line # Part # Description Qty Each o The Source to Image Distance, Landmarking. 3D blending. • WW/WL settings, Store and review runs, · Store snapshots and movies. Transfer/ export to: Optional Hard Copy unit (DICOM Print) DICOM compatible device, supported are DICOM XA, DICOM SC, DICOM CT and DICOM 3D Any PC in a standard PC compatible format (JPEG.AVI) One or multiple DVD's, CD-ROM(s) USB device. **NCVC544 StentBoost Live 1 \$21,919.80 \$21,919.80 3 StentBoost Live When inserting a stent in complex cardiac vasculature, inexact positioning and under deployment are always a challenge. StentBoost Live allows physicians to improve the visualization of balloons and stents in coronary arteries on-the-fly to clarify the situation at any moment during an intervention. The user simply presses and holds the foot pedal to boost visualization during the cine run. He can use StentBoost Live to check the position of a device in real-time and confirm stent expansion while the balloon markers are still in place. He can then take any corrective action immediately if required. To do this, StentBoost Live automatically detects the balloon markers in each acquired image. The detected markers are aligned with the markers found in previous image(s) and temporal and spatial filtering is applied to enhance all radiopaque material in close proximity to the markers. All of this occurs in a few hundreds of milliseconds to produce an enhanced visualization in real-time. StentBoost Live can be applied to any cine run acquisition and at least four frames of images are reauired. StentBoost Live features include: Automatic marker detection · Real-time image enhancement during the StentBoost Live run Immediately after acquiring the StentBoost Live run, the run is automatically looped three times to allow for further review StentBoost Live functionality is fully integrated in the interventional X-ray system Image snapshots or movies can be archived to any DICOM compatible PACS. These include **DICOM XA and DICOM SC** Note; when ordering Dynamic Coronary Roadmap and/or StentBoost Live for a non-FlexVision system a single dedicated color monitor must be added to the MCS. 4 **NCVB167 **MR/CT** Roadmap 1 \$17,493.00 \$17,493.00 Philips MR-CT Roadmap tool allows re-use of the vessel tree image from previously acquired MRA (MR angiography) or CTA (CT angiography) scans for endovascular navigation. Key benefits · Roadmap on previously acquired MR and CT angiography datasets, reducing the need for additional X-ray dose and contrast medium

· Reduce treatment risks for patients with renal insufficiency or young patients who are

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Line # Part # Description Qty Each Price Initial

considered X-ray dose sensitive

Perform procedures with a high level of precision thanks to real-time compensation for gantry
and table movement

Accurate 3D guidance for complex interventions

Patients undergoing complex vascular interventions often receive high-resolution CT or MR scans in the diagnostic phase. To manage patients' exposure to additional X-ray dose and contrast medium during the intervention, Philips MR-CT Roadmap tool allows re-use of the vessel tree Image from previously acquired MRA (MR angiography) or CTA (CT angiography) scans for endovascular navigation.

Specifications

MR/CT Roadmap extends the capabilities of the integrated 3D product by providing a sustainable 3D roadmap based on previous acquired CT or MR scans to support Interventional procedures. Image Acquisition

A previously acquired CT or MR scan can be imported into the system and matched with a low dose 3D-RA or XperCT scan. The MR/CT Roadmap is activated with one button touch at tableside on the touch screen module. The "live" 2D fluoroscopy image is overlaid with the MR/CT volume presented in 2D or 3D and is automatically displayed on the roadmap monitor in both the examination room and control room.

Intuitive, fully controlled from tableside:

The bidirectional link between the X-ray system and the MR/CT Roadmap allows the user to select the stand position for the procedure in two ways. 3D Automatic Position Control allows the gantry to automatically move to the best interventional projection as shown on the MR/CT Roadmap monitor. 3D Follow C-arc allows the MR/CT Roadmap to remain in sync with the 2D projection, automatically adjusting viewpoint as the gantry is repositioned.

Easy 2 step registration of the MR/ CT volumes

 Landmarking to adjust the intensity of the anatomical reference surrounding the vessels and tissue

• 2D and 3D blending to fade in/out the 2D or 3D view

- · WW/WL settings to control the contrast/brightness
- Store and review runs for reporting and archive purposes
- Store snapshots and movies

MR/CT Roadmap data can be exported to:

• Any optional DICOM compatible device(e.g. PACS/Printer), supported are DICOM XA, DICOM SC, DICOM CT and DICOM 3D

- Support archive on one or multiple DVD's, CD-ROM(s)
- Image transfer to a standard PC compatible format (JPEG, AVI)
- Store a subset of exportable objects (snapshots and AVI Movies) to a USB device.

5	**NCVA695	FD Rotational Angio	1	\$18,606.00	\$18,606.00

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OPTIONS

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Line #	Part #	Description	Qty	Each		Price	Initial
Realtime 3D impressions of complex vasculature		essions of complex vasculature			•		

Key benefits

 Use 3D imaging to quickly determine the projection angle for treatment in complex vascular interventions, surgery and radiotherapy

Supports assessment of vascular pathologies for diagnostic and therapeutic decisions.

Revealing hidden structures

The complexity of interventional procedures lies in the fact that every person's pathology is unique. Visualization in three dimensions is therefore vital to ald decision making by the clinician. Rotational angiography provides real-time 3D impressions of complex vasculature and the coronary artery tree. Rotational Angio can be used to quickly determine the projection angle for treatment.

Specifications

Rotational Angio acquires multiple projections with just one contrast injection via a fast rotational scan of the region of interest. A rotational scan is possible both with the X-ray systems in the side position (ceiling mounted systems) and in the head position, providing the flexibility to perform procedures virtually from head to toe.

, C-arm in side position:

Max. rotation Speed: 30 degrees/s

Max. rotation Angle: 180 degrees

C-arm In head position:

Max. rotation Speed: 55 degrees/s

Max. rotation Angle: 240 degrees

Max. Frame speeds are given by the frame speed specifications of the system configuration. The very high movement speed allows using less contrast, whereas the very wide rotation range provides a complete evaluation of the anatomy.

A contrast run can be followed up with a mask run, to allow image/run subtraction.

The stand is designed for a very high mechanical stability. It offers precise positioning and high reproducibility, assuring you of high quality images and excellent subtraction studies. Rotational Angio results are available on the X-ray system.

Operation of Rotational Angiography is straight forward: the procedure is selected, set up and executed virtually in a matter of seconds, supporting high patient throughput.

A set of dedicated acquisition programs is available on the touch screen module and can be selected at the touch of a button. The Rotational Anglo is controlled from the exposure hand- or footswitch.

6 **NCVD138 table tilt option 1 \$17,749.20 \$17,749.20

Table tilt option provides precise imaging of contrast medium, blood, or objects in the body.

Key benefits

- · Tilts the table to support gravity oriented and puncture procedures
- Keeps the region of interest in the isocenter of rotation and angulation
- Allows more precise imaging of contrast medium, blood, or objects in the body

Precise imaging during gravity oriented and puncture procedures

To obtain high quality results and avoid re-takes during gravity oriented or puncture procedures, it's important to keep the region of interest centered at all times. The tilt option allows you to tilt the table. As the table tilts, the X-ray beam automatically adapts to the movement to keep the region

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100237 Azunion 74120 **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. Price Initial Line # Part # Description Qtv Each of interest in the isocenter of rotation and angulation of the stand. As a result, your region of interest always remains centered to allow more precise imaging of contrast medium, blood, or objects in the body. The table floats even when tilted, and the region of interest can be followed by panning the tabletop. When combined with the Bolus Chase option, the table tilt option enables phiebography to be performed with a head-up tilted patient. Specifications Motorized table height from 78.5 - 103.5 cm Maximum tilt range: -17 degrees (head down) to +17 degrees (head up). Tilt speed: 2 degrees/sec Automatic safeguarding system with manual override Panning range in tilted plane: equal to the standard tabletop specifications (longitudinal 120cm, lateral 36cm) Easy to use controls \$13,981.80 ___ \$13,981.80 7 **NCVB882 **Cradle extension** 1 Moves the tabletop in a cradle motion from side to side to support surgical and puncture procedures Improves access to patients Allows precise imaging of contrast medium or blood Precise imaging during surgery and puncture procedures To obtain high quality imaging results and help in avoiding re-takes during surgical or puncture procedures, it can be useful to swing the tabletop from side to side in a cradle movement. This extension moves the tabletop in a cradle motion to improve access to patients. It also allows precise imaging of contrast medium or blood. **NCVD128 storage extension 1 \$5,035.80 \$5,035.80 8 Extends image storage capacity on your X-ray system As imaging data becomes larger, you can quickly reach the limit of the storage capacity on your interventional X-ray system. The Storage extension extends the storage capacity of your interventional X-ray system. Specifications By default 50,000 images are available, this option will give 100,000 images (this is for 1K2 image size), **NCVD178 **IW Hardware** -1 \$19,899.60 \$19,899.60 9 Key benefits · Facilitates the interventional tools and multimodality viewing in exam room and control room · Supports import and viewing of DICOM compatible data from CT and MR imaging modalities View multimodality images in exam room and control room Images from a variety of sources are being increasingly used during interventions for a variety of Live Image Guidance tools. The Interventional Tools Hardware option provides the hardware for our interventional tools. It enables DICOM compatible data from other imaging modalities to be imported and viewed in the exam room and control room. To support fast results, a real-time digital

image link is provided between the Interventional Hardware workstation and the X-ray system. Specifications

The Interventional hardware is the hardware for the 3D interventional tools that includes Real Time

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Line # Part # Description Qty Each Price Initial

Link. It enables import and viewing of DICOM compatible data from other imaging modalities. The Interventional Hardware comprises at least:

- Computer Workstation
- Control Room 24" display
- 16 GB memory
- 1.5 TB disk for the operating system, application software and application data
- Internal CD-ROM / DVD writer
- Mouse tablet to interact with all the interventional tools at the table side.
- Conditionally:

FD Calibration Tool Kit for 3D-RA

10 **NCVC546 HeartNavigator R3 1 \$38,971.80 \$38,971.80

HeartNavigator R3 automatically segments anatomical structures, anatomical landmark points and anatomical planes from previously acquired DICOM compliant CT datasets.

Key benefits

• Deeper anatomical understanding to plan and perform TAVR/TAVI, mitral valve replacement and LAAC procedures

• Immersive user experience and fully automated tasks simplify planning, measurement, device selection and choice of X-ray viewing angle

Enhanced insight into calcification distribution

Insightful planning and guidance for Structural Heart Disease procedures

When planning a structural heart disease (SHD) procedure, an objective assessment on vascular anatomy can help you work with greater confidence and avoid complications. Understanding the patient's individual anatomy when planning a transcatheter aortic valve replacement or implantation (TAVR/TAVI), mitral valve replacement, left atrial appendage closure (LAAC) or other procedure helps you select the appropriate approach, and size and type of a device. In addition, safely navigating the valve delivery devices through anatomy and deploying the valve in the correct position are recognized as technical challenges when performing TAVR/TAVI procedures.

HeartNavigator Release 3 automatically segments anatomical structures, anatomical landmark points and anatomical planes from previously acquired DICOM compliant CT datasets to support a wide variety of structural heart disease procedures. Different visualization tools, including anatomical landmarks, virtual devices, viewing planes and measurements are available to support precise planning.

Specifications

• Automatic segmentation of tissue, anatomical structures, landmarks, calcium, anatomical planes and viewing angles within the cardiac CT data for TAVI/TAVR

- Automatic distance, diameter, area and perimeter measurements for TAVI/TAVR
- Automatic Free centerline measurement along the ascending aorta for TAVI/TAVR

• Segmentation, measurements and viewing angles for other SHD procedures, e.g. mitral valve replacement and left atrial appendage closure

• Up to date virtual device library for TAVI/TAVR procedures

• Report with all relevant measurements, viewing angles and selected device as print for use in exam room or stored on the PACS.

- Live guidance with CT overlay and automatic viewing angles
- Highly automated intuitive workflow
- · Enhanced anatomy visualization

Please contact your local sales person for any CT compatibility details.

11 **NCVC327	XperCT Dual
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1 \$53,562.60

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OPTIONS

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XperCT Dual allows two scans to be made on the X-ray system at a defined interval, resulting in CT-like images.

Key benefits

- · Alds in assessment of soft tissue, bone structure, and stent deployment
- Fast reconstructions support fast decisions during procedures

• DualPhase acquisitions allow visualization of arterial and post-arterial contrast enhanced images to support oncology interventions

Supports assessment of soft tissue, bone structure, and stent deployment

One of the challenges during interventional procedures is to treat the region of interest without affecting healthy tissue or organs. XperCT Dual is a version of XperCT, which allows two scans to be made on the X-ray system at a defined interval, providing high resolution, high contrast images

 within seconds. Physicians can use the CT-like images of XperCT Dual to assess soft tissue, bone structure, and stent deployment before, during, and after interventions. This alds in avoiding structures and identifying feeder vessels.

Specifications

XperCT Dual protocols are available covering routine procedures such as biopsies and drainages but also advanced procedures such as abdominal oncological imaging up to neuro high resolution stenting. All protocols can be selected at the tableside via the touch screen module.

The DualPhase dual view functionality allows the simultaneous visualization of two 3D datasets acquired at different times of the procedure such as the arterial and post-arterial contrast enhancement in oncologic liver imaging. In this DualVlew, XperCT Dual allows the segmentation of multiple lesions at the same time in the viewed datasets.

XperCT Dual acquires up to 60 frames/sec. (frame rate extension to 60frames/sec is included) and supports fast abdominal protocols with 5 to 8 second acquisition times for the X-ray system, thereby minimizing respiratory artifacts. The XperCT volume is displayed automatically within 8 to 15 seconds after acquisition. No user interaction is required.

XperCT Dual includes Metal Artifact Reduction to reduce the artifacts caused by metal presence in the region of interest. BMI Noise Reduction is included to reduce the noise caused by large size patients (only available when Abdominal XperCT runs are selected).

The XperCT volume can be viewed in the control room and in the examination room. The viewing package comprises:

- 3D volume viewing in any desired orientation
- Slice viewing in any desired orientation
- Slice viewing at any slice thickness with a minimum of 0.5 mm
- Five distance measurements calculated in the same volume, including "Quick measurement" feature
- · Cut-plane functionality to provide precise insight into anatomical structure
- · Unique high-resolution reconstructive zoom technique
- · Graphical display of stand position including rotation and angulation parameters
- Contrast and brightness control
- Contrast resolution 5-10 Hu
- · Spatial resolution of the initial reconstruction: 10 lp/mm
- Contrast range -1000 to 2000 Hu
- High resolution imaging mode produces
- 512x512x512 volume rendered reconstructions
- XperCT Dual can be controlled via the touch screen module and the mouse at tableside.

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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	`Initlal-
	The XperCT vol Rotational Angic combining multi- insight. This mu • Registration of • The resulting v • The XperCT sl Interest • Three different structure • (128x128x128 • Movie clip reco • 3D automatic XperCT volume • 3D Follow C-a • XperCT data a patient related of XperCT data ca • Any optional D	ume can be matched with (who ography) and pre acquired CT, ple images from different mode itimodality volume can be view the two volumes from the san volume can be viewed with cor- ice can be overlaid onto the 31 t contrast rendering options to , 256x256x256, 384x384x384 ording functionality (AVI) to cap position control at tableside: W the C-arc steers itself to the s rc at tableside and 3D-RA with XperCT Dual co fata. All this data can be review in be exported to: DICOM compatible device (e.g.	PET/CT or MR volun alities in order to prov yed with the following me patient nplete 3D-RA viewing D vessel for better as allow viewing of the 3 and 512x512x512 vo bure dynamic views /hen an working posit elected position overlay is stored in the wed at any time.	nes. This view all ide additional and functionalities: functionality sessment of the r BD vessel in the s lumes) lon is selected fro e same patient file	ows atomical region of oft tissue om the e as all other	·
	SC, DICOM CT	and DICOM 3D				
	 Image transfer 	ve on one or multiple DVD's, C r to a standard PC compatible t of exportable objects (snapsh	format (JPEG, AVI)	to a USB device.		
12	**NCVC664	SmartPerfusion	1	\$30,370.20	\$30,370.20	
	blood perfusion treatment can p analysis softwa intervention to s SmartPerfusion provides rich in procedure imag density curves a Perfusion chara the effects of re The software p runs. The cathe previous positio maintain a cons	restore vessel patency during a during tumor embolization, ge provide essential information to re helps clinicians identify and support determination of treatm requires only one contrast en formation of vessel perfusion is jes, clinicians can easily identif and consequently verify if the re- acteristics in multiple regions o evascularization during and immovides step-by-step guidance eter position of the pre-run is step on to support accurate compar- sistent imaging position. Advar- simplify clinical adoption.	atting feedback on tiss guide decision-makin quantify the change in nent endpoint* of proce hanced DSA run for ea n the interventional la fy perfusion difference required level of perfu f interest can be comp mediately after the pro- to aid standardization tored and the fluoro of lsons. The footrest sta	sue perfusion befing. SmartPerfusion in perfusion due for each perfusion im b. By comparing es in the color im sion has been ac pared on one scr pocedure. In of pre- and posi- verlay is aligned abilizes the lower	ore and after on image to an age, and pre- and post- ages and time- chieved. een to quantify comparison with the leg and foot to	
	Key benefits • Supports dete • Supports phys parameters	ermination of treatment endpole sicians in assessing treatment	nt* efficacy by instantly ຄ	showing changes	In perfusion	

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OPTIONS

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Line #	Part #	Description	Qty	Each	Price	Initia
		eamless and automated guidance es pre- and post-comparison runs	hrough guided po	sitioning		
		on of treatment endpoint is the cor formation together with other relev		y the physician, ba	ased on	
13	**NCVC564	XperCT Open and Closed	1	\$3,897.60	\$3,897.60	.
	mode in add Specificatio Open Trajec respectively. translation o arm to the rig (such as the same frame customers c	tory provides 3D rotational acquisit This protocol opens the arc to the f the angiographic table towards th ght lateral side of the patient. This periphery of the liver) in a single s rate as XperCT Dual (60 frames/se an continue to retain the current st fill be able to choose either of the t	ory. lons with start and left side of the pat is direction; therek enables visualizing weep. In this funct ec). With 'XperCT andard closed traj	I stop positions of tient allowing for a by shifting the isoc g off-centered region tion, the data is acc Open and Closed' ectory protocols. T	+55° to -185° wider enter of the C- ons of interest quired at the functionality, herefore,	
14	**NNAE049	XperCT OnSite Clin Ed	1			
	Clinical Educ CV XperCT Philips Educ selected by may be avai guidelines for responsible to demonstric Education e separately).	cation Program for XperCT Handover OnSite Education: ation Specialists will provide eight customer, including technologists f lable for each participant that meet or more information. Note: Site must for actual patient contact or operat ate proper equipment operation. xpires one (1) year from equipmen Ref# 335-100615 is provided only with the purchase	rom night/weeken is the guidelines p st be patient-ready ion of equipment o t installation date (d shifts if necessai rovided by Philips. 7. Philips personne during education so (or purchase date i	y. CEU credits Please refer to l are not essions except if sold	
15	**NNAE278	Heart Navigator OnSite Education	1			
	Clinical Edu	cation Program for iXR Heart Navi	gator:			
	of educatior procedures participant t information.	Navigator OnSite Education: Philips of for up to (4) students selected by are required to be part of the training hat meet the guidelines provided bo Note: Site must be patient ready.	the customer . The ng session. CEU c y Philips. Please r Philips personnel a	e Physicians perfo credits may be ava efer to guidelines f are not responsible	rming the ilable for each for more for actual	

patient contact or operation of the equipment during the educations sessions except to demonstrate proper equipment operation.

iXR Heart Navigator OnSite Live Case Follow Up Education: Philips Education Specialist will provide twenty -four (24) hours of education for Physicians and staff for live case use of the Heart

 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

 Navigator software. This will be a follow up visit to the initial training of the Heart Navigator software. It is required that Live Valve implantation studies be performed during this education session. No CEU credits will be available for this session. Please refer to guidelines for more information. Note: Site must be patient ready. Philips personnel are not responsible for actual patient contact or operation of the equipment during the educations sessions except to demonstrate proper equipment operation.

 Education expires one (1) year from equipment installation date (or purchase date if cold

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Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref# 694698-20110915 This training is provided only with the purchase of Heart Navigator

This training is provided only with the purchase of Heart Navigator.

16 **NNAE504 Clinical Education Program for 1 Vessel Navigation

Philips Imaging Systems Clinical Education Specialist will provide twenty-four (24) hours of education for up to four (4) students, as selected by customer, including technologists from weekend/night shifts as necessary. CEU credits are not available for this portion of training. Please refer to guidelines for more information. Note: Site must be patient ready. 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). Ref#296276-20150820

This training requires the purchase of Vessel Navigation.

17 **NNAE596 IXR StentBoost Imaging Systems OnSite Education

Philips Imaging Systems Clinical Education Specialist will provide eight (8) hours of education for up to four (4) students, as selected by customer, including technologists from weekend/night shifts as necessary. CEU credits are not available for this portion of training. Please refer to guidelines for more information. Note: Site must be patient ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

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Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref#296309-20170315 This training requires the purchase of StentBost Live.

18 **NNAE957 Clinical Education Program for SmartPerfusion

IXR 2D Perfusion OnSite Education: Philips Education Specialists will provide sixteen (16) hours of 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: Site must be patient-ready. 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). Ref # 6034-20131218 This training requires the purchase of 2D Perfusion.

IPHILIPS PRODUCT WARRANTY

Interventional X-RAY (IXR) Systems Product Warranty

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. <u>Twelve (12) Month System Warranty</u> 1.1 Philips Healthcare a division of Philips North America LLC (Philips) warrants to Customer that the Philips' Interventional X-Ray Systems (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 int use, whichever occurs first.

1.2 Any glassware or flat delectors provided with the System is subject to special warranty terms set forth below,

Planned Maintenance.
 2.1 During the warranty period, Philips' service personnel will achedule planned maintenance visits, in advance, at a mutually agreeable time on weekdays, between 8:00 am and 6:00 pm local time, excluding Philips' observed holidays.

3. System Options, Upgrades or Accessories,

3.1 Any Philips authorized oplicing, 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: 3.1.1 upon termination of the initial twelve (12) month warranty period for the System on which the option or accessory is installed,

3.1.2 after ninety (90) days for parts only from the date of installation.

4. MRC X-Ray Tubes 4.1 Philips warrants to Customer, for the warranty periods further specified in this section, that the Philips' X-Ray tubes (tubes) will be substantially free from defects in material and manufacturing workmanship, which impair performance under normal use as specified in Philips' System descriptions and specifications. 4.2 The warranty period for MRC Tubes provided with Customer's purchase of a new or refurbished X-Ray system shall be the shorter of thirty-six (36) months after installation or

bity-sight (38) months after date of shipment from Philips. 4.3 The warranty period for purchases of replacement lubes shall be the shorter of twelve (12) months after installation or fourteen (14) months after date of shipment from Philips.

5. MRC Tube Warranty Exclusions

5.1 The above warranty shall not apply to X-Ray Tubes outside the United States and Canada.
5.1 The above warranty shall not apply to X-Ray Tubes outside the United States and Canada.
6.2 Phillps' obligations under the System warranty do not apply to any System defects resulting from: Improper or Inadequate maintenance or calibration by Customer or its agents;
Customer or third party supplied software, Interfaces, or supplies; use or operation of the System other than in accordance with Philips' applicable System spacifications and written instructions; improper site preparation; abuse, negligence, accident, loss or damage in transit, unauthorized maintenance or modifications to the System; or, to vinuees or similar software interference resulting from the connection of the System to a network.

6. <u>MRC Tube Warranty Remedies</u>
6.1 if a tube is found to fall during the warranty period, and if, in the best judgment of Philips, the failure is not due to neglect, accident, improper installation, use contrary to instructions, or the exclusions stated above, Philips' tube warranty fiability hereunder is limited to, at Philips' option, the repair or replacement of the tube.
6.2 Any replacement tube would have a warranty period equal to the balance of the warranty period left on the tube replaced.

7. Dynamic Flat Detectors 7.1 Philips warrants the Dynamix Flat Detectors (detector) provided with the System, if any, will be free from defects in material and manufacturing workmanship for twelve (12) months.

7.2 Claims must be made within tweive (12) months after installation or fifteen (15) months after date of shipment from Philips, whichever occurs first. 7.3 If a detector fails to meet this warranty, as Customer's sole and exclusive remedy, upon return of the detector, Philips will provide Customer a replacement detector at no additional charge.

 <u>System Software and Software Updates</u>
 The software provided with the System will be the latest version of the standard software available for that System as of the ninetleth (90ih) day prior to the date the System is delivered to Customer.

8.2 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.

 8.3 All software is and shall remain the sole property of Philips or its software suppliers.
 8.4 Use of the software is subject to the terms of a separate software license agreement. Customer must sign all such license agreements prior to or upon the delivery of the product.

product. 8.6 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. 8.6 Any Phillps maintenance or service software and documentation provided with the System and/or focated at Customer's premises is intended solarly 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. 8.7 Customer agrees to restrict the access to such software and documentation to Philips employees, those of its authorized agents, and to authorized employees of Customer

onty.

Warrenty Limitations
 9.1 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 pald by the Customer upon Customer's request.
 9.2 Any refund will be paid, to the Customer when the product is returned to Philips.
 9.3 Warranty service outside of normal working hours (Le 8:00 em to 5:00 pm Monday through Friday, excluding Philips' observed holidays), will be subject to payment by Customer at Philips standard service rates.

at manys standard service rates, 9.4 This warranty is subject to the following conditions: the product 9.4.1 is to be installed by authorized Philips' representitives (or is to be installed in accordance with all Philips' installation instructions by personnel trained by Philips); 9.4.2 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

producta ware intended; and 9.4.3 is to be maintained and in strict compilance with all reccommended and scheduled maintenance instructions provided with the Product, 9.5 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 willhout product vapored by Philips; use or operation of the product other than in accordance Philips' applicable product specifications and written instructions; abuse, negligence, accident, loss, or damage in iransit; improper site perparation; unauthorized maintenance or modifications to the product; or, viruses or similar software interference resulting from connection of the product to a network. 9.6 Philips does not provide a warranty for any third party products furnished to Customer by Philips under this quotation; however, Philips ahalt use reasonable efforts to extend to Customer the third party warranty for any third party products furnished to Customer's sole and exclusive remedy for a breach of a warranty. 9.8 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 RODUCT, THE SOFTWARE, AND THE TRANSACTIONS CONTEMPLATED BY THE QUOTATION, AND ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, WHETHER WRITTEN, ORAL, STATUTORY, EXPRESS OR IMPLED INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF NON-INFRINGEMENT MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. 8.9 Philips may use refurbished parts in the manufacture of the products, which are subject to the seme quality control procedures and warranties as for new parts.

10. Philips' Remote Services Network (RSN)

10.1.1 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 Phillps) for connection to the equipment and to Customer's network; or 10.1.2 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 remole servicing of the product, remote assistance to personnel that operate the products, updaling the products software, transmitting automated status notifications.

from the product and regular uploading of products data files (such as but not limited to error logs and utilization data for improvement of Phillos' products and services and

from the product and regular uportants of product and result of a start of the scheduled planned maintenance service and will void support or warranty coverage of 10.2 Custome's failure to provide such access will constitute Custome'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. 10.3 Customer agrees to pay Philips at the prevailing demand service rates for all time spent by Philips' service personnel waiting for extended coverage.

11. <u>Transfer of System</u> 11.1 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.

11.2 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. 11.3 Customer will companyate Philips for these services at the prevailing service rates in effect as of the date the inspection is performed. 11.4 Any System which is transported intact to pre-approved locations and is maintained as originally installed in mabile configurations will remain covered by this warranty.

12. Limitation of Liability 12.1 THE TOTAL LIABILITY, IF ANY, OF PHILIPS AND ITS AFFICIATES FOR ALL DAMAGES AND BASED ON ALL CLAIMS, WHETHER ARISING OR RELATING TO 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. 12.2 THIS LIMITATION SHALL NOT APPLY TO: 12.2.1 THIRD PARTY CLAIMS FOR DIRECT DAMAGES FOR BODILY INJURY OR DEATH TO THE EXTENT CAUSED BY PHILIPS' NEGLIGENCE OR PROVEN PRODUCT DEFENT

12.2.2 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; 12.2.3 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; 12.2.4 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.

13, <u>Disclaimer</u>

13. <u>Dischammer</u> 133. 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.

14. EORGE MAJEURE

14.1 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.

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Philips' system specifications are subject to change without notice

Non Disclosure Agreement for Philips Confidential Pricing Information

The parties specified below agree to the following terms:

A. Philips

	unpo	
	Name	Philips Healthcare, a division of Philips North America LLC
	Address	22100 Bothell-Everett Highway, Bothell, WA 98021 United States of America
В,	Company	
	Name	ST VINCENTS BIRMINGHAM
	Address	810 SAINT VINCENTS DR BIRMINGHAM, AL 35205-1601

Confidential Information C.

Sonnaenaar unonnaud		
Authorized Purpose	To evaluate Phillps' 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.

-nilips Contact		Company Contact		
Name	Justin Helms	Name		
Title		Title		
Telephone	(256) 590-3943	Telephone		
Fax	· · · · · · · · · · · · · · · · · · ·	Fax		
e-mail	· · · · · · · · · · · · · · · · · · ·	e-mail		
Signature		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. Phillips 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 Phillips 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;
- protect the Pricing against disclosure in the same manner and with the same degree of care with which Company protects its own (c) confidential information but not less than a reasonable degree of care; and

limit circulation of the Pricing to Company's employees as have a need to know in connection with the Authorized Purpose. (d) 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:

- is or becomes part of the public domain without violation of this Agreement or any other obligation of confidentiality; (a)
- Is known by Company prior to disclosure by Phillos: (b)
- Is lawfully obtained by Company from a third party without any breach of confidentiality or violation of law; or (c)
- is developed by Company completely independently of any such disclosure by Philips. (d)
- 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

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