North Carolina Department of Health and Human Services
Division of Health Service Regulation

Pat McCrory
Governor

Aldona Z. Wos, M.D.
Ambassador (Ret.)
Secretary DHHS

Drexdal Pratt
Division Director

April 30, 2014

Elizabeth Kirkman
Assistant Vice President, CHS Management Company
2709 Water Ridge Parkway, Suite 200
Charlotte, NC 28217

Exempt from Review - Replacement Equipment

Facility:	Carolinas Medical Center (CMC)
Project Description:	Acquisition of replacement interventional radiology equipment to be located on the fourth floor of CMC main campus
FID #:	943070

Dear Ms. Kirkman:

In response to your letter of April 2, 2014 the above referenced proposal is exempt from certificate of need review in accordance with N.C.G.S 131E-184(f). Therefore, you may proceed to acquire, without a certificate of need, the Toshiba Infinix VF-i/BP interventional unit to replace the existing Siemens Artis BA interventional unit (Serial #118948). This determination is based on your representations that the existing unit will be removed from North Carolina and will not be used again in the State without first obtaining a certificate of need. Further please be advised that as soon as the replacement equipment is acquired, you must provide the CON Section and the Medical Facilities Planning Branch with the serial number of the new equipment to update the inventory, if not already provided.

Moreover, you need to contact the Construction and the Acute and Home Care Licensure and Certification Section to determine if they have any requirements for development of the proposed project.

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

Sincerely,

Fatimah Wilson
Project Analyst

Martha J. Frisone, Interim Chief
Certificate of Need Section

cc: Medical Facilities Planning Branch, DHSR
Acute and Home Care Licensure and Certification Section, DHSR
Radiation Protection Section, DHSR
Construction Section, DHSR

Carolinas HealthCare System

Edward J. Brown III
Chairman

Michael C. Tarwater, FACHE
Chief Executive Officer

Joseph G. Piemont
President & COO

April 2, 2014

Ms. Martha Frisone, Interim Chief
Certificate of Need Section
Division of Health Service Regulation
N.C. Department of Health & Human Services
809 Ruggles Drive
Raleigh, NC 27603

RE: Carolinas Medical Center – Exemption Notice for Acquisition of Replacement Interventional Radiology Equipment, Mecklenburg County

Dear Ms. Frisone:

The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center ("CMC"), seeks to acquire a Toshiba Infinix VF-i/BP bi-plane interventional unit ("Infinix") ("Replacement Equipment"). Please see Attachment A for a copy of CMC's current hospital license. The Replacement Equipment will replace CMC's current Siemens Artis BA ("Existing Equipment"). The Existing Equipment is currently housed in Interventional Radiology room #4 (CMC IR #4) and in use on the fourth floor of CMC located at 1000 Blythe Boulevard, Charlotte, NC 28203 (see Attachment A). The Replacement Equipment will be located in the same space (CMC IR #4) on the fourth floor of CMC, 1000 Blythe Boulevard, Charlotte, NC 28203.

The purpose of this letter is to provide the Agency with notice and to request a determination that CMC's purchase of the Replacement Equipment is exempt from Certificate of Need ("CON") review under the replacement equipment exemption provisions contained in Session Law 2013-360, Section 12G.3(b) and Session Law 2013-363, Section 4.6 (which are codified at N.C. Gen. Stat. 131E-184(f)(1)-(3)).

The General Assembly has chosen to exempt certain, otherwise reviewable events from CON review. Among those exemptions is the acquisition of "replacement equipment," defined as follows in the CON law:

"Replacement equipment" means equipment that costs less than two million dollars ($2,000,000) and is purchased for the sole purpose of replacing comparable medical equipment currently in use which will be sold or otherwise disposed of when replaced.

See N.C. Gen. Stat. 131E-176(22a). Under the new provisions found at N.C. Gen. Stat. 131E-184(f)(1)-(3), the CON law provides:

(f) The Department shall exempt from certificate of need review the purchase of any replacement equipment that exceeds the two million dollar ($2,000,000) threshold set forth in G.S. 131E-176(22) if all of the following conditions are met:

(1) The equipment being replaced is located on the main campus.
(2) The Department has previously issued a certificate of need for the equipment being replaced. This subdivision does not apply if a certificate of need was not required at the time the equipment being replaced was initially purchased by the licensed health service facility.
(3) The licensed health service facility proposing to purchase the replacement equipment shall provide prior written notice to the Department, along with supporting documentation to demonstrate that it meets the exemption criteria of this subsection.

See Session Law 2013-360, Section 12G.3(b) and Session Law 2013-363, Section 4.6. The term "main campus" was defined in Session Law 2013-360, Section 13G.3(a) (codified N.C. Gen. Stat. 131E-176(14n)) as follows:

(14n) "Main campus" means all of the following for the purposes of G.S. 131E-184(f) and (g) only:

a. The site of the main building from which a licensed health service facility provides clinical patient services and exercises financial and administrative control over the entire facility, including the buildings and grounds adjacent to that main building.
b. Other areas and structures that are not strictly contiguous to the main building but are located within 250 yards of the main building.

The Existing Equipment is currently located on the fourth floor of CMC's main hospital building and the Replacement Equipment will be located on the fourth floor of CMC's main hospital building. The main hospital building from which Carolinas Medical Center exercises financial and administrative control over Carolinas Medical Center services is located at 1000 Blythe Boulevard, Charlotte, NC 28203. Carolinas Medical Center's President's office is located on the second floor of the main hospital building.

In addition to the foregoing, to qualify for this exemption, the replacement equipment must be "comparable" to the equipment it replaces and the equipment being replaced must be "sold or otherwise disposed of when replaced." CMC's proposal qualifies for this exemption.

A. Cost of the Replacement Equipment

The purchase price of the new interventional radiology equipment is $1,500,000 as shown in the quote from Toshiba provided in Attachment B and the purchase price of the injector is $32,832.92 as shown in the quote from Bayer provided in Attachment B. The total fixed equipment budget line item which includes sales tax is $1,643,963. The projected total capital cost of the project is $2,392,000 and includes the removal of the existing equipment, renovation of the space and installation of the replacement interventional radiology equipment. The total capital cost schedule and the certified cost estimate of the renovation required to install the new equipment are provided in Attachment C.

B. Equipment Being Replaced is Located on the Main Campus

The Existing Equipment is currently located in the CMC IR #4 room on the fourth floor of CMC (see Attachment A). The Replacement Equipment will be located in the same space in CMC IR #4 on the fourth floor of CMC (see Attachment A).

C. Certificate of Need Issued for Equipment Being Replaced

This proposal also fits within the new exemption criterion in Section 131E-184(f)(2) because the Department issued a Certificate of Need for the Existing Equipment (see Attachment C). The Existing Equipment was purchased in 2002.

D. Comparable Equipment

The CON rule codified as 10A N.C.A.C. 14C.0303 (the "Regulation") defines "comparable medical equipment" in subsection (c) as follows:

> "Comparable medical equipment" means equipment which is functionally similar and which is used for the same diagnostic or treatment purposes.

CMC intends to use the Replacement Equipment for substantially the same interventional radiology procedures for which it currently uses the Existing Equipment. The Existing Equipment is a Siemens Artis BA that was installed new at CMC in 2002. This Existing Equipment has been used for interventional radiology procedures since installation.

The Replacement Equipment will perform all procedures currently performed on the Existing Equipment. Although it possesses some expanded capabilities due to technological improvements, the Replacement Equipment will perform the same general range of interventional radiology procedures (see Attachment B for the Equipment Brochure). The Replacement Equipment is therefore "comparable medical equipment" as defined in Subsection (c).

Futhermore, CMC does not intend to increase patient charges or per procedure operating expenses within the first 12 months after equipment acquisition. For further equipment comparison, please refer to Attachment D, the Equipment Comparison Chart.

Subsection (d) of the regulation further provides:

(1) it has the same technology as the equipment currently in use, although it may possess expanded capabilities due to technological improvements; and
(2) it is functionally similar and is used for the same diagnostic or treatment purposes as the equipment currently in use and is not used to provide a new health service; and
(3) the acquisition of the equipment does not result in more than a 10.0 percent increase in patient charges or per procedure operating expenses within the first twelve months after the replacement equipment is acquired.

The Replacement Equipment will meet all three of tests set out in Subsection (d). The Replacement Equipment satisfies the technology and functionality tests in Subsection (1) and (2) as discussed above and identified in the Comparison Chart (Attachment D). Moreover, CMC represents the use of the Replacement Equipment will not result in the types of expense or charge increases described in Subsection (d)(3).

The Existing Equipment is currently in use and documentation provided in Attachment D indicates that 1,840 procedures were performed in 2013.

E. Disposition of Equipment

Please see Attachment C for a letter documenting the Existing Equipment will be taken out of service and will not be re-sold or re-installed in North Carolina without appropriate certificate of need approval.

CONCLUSION

Based on the foregoing information, CMC hereby requests that the Agency provide a written response confirming that the acquisition of the Replacement Equipment described herein is exempt from CON review. If the Agency needs additional information to assist in its consideration of this request, please let us know.

Thank you for your consideration of this notice.

Sincerely,

Elizabeth V. Kirkman

Elizabeth V. Kirkman
Assistant Vice President
CHS Management Company

Attachments

cc: F. Del Murphy, Jr., CHS Management Company
Spencer Lilly, President CMC

Attachment A

State of North Carolina

Department of Health and Human Services
Division of Health Service Regulation

Effective January 01, 2014, this license is issued to

The Charlotte-Mecklenburg Hospital Authority

to operate a hospital known as

Carolinas Medical Center/Center for Mental Health

located in Charlotte, North Carolina, Mecklenburg County.

This license is issued subject to the statutes of the State of North Carolina, is not transferable and shall remain in effect until amended by the issuing agency.

Facility ID: 943070

License Number: H0071

Bed Capacity: *1066*

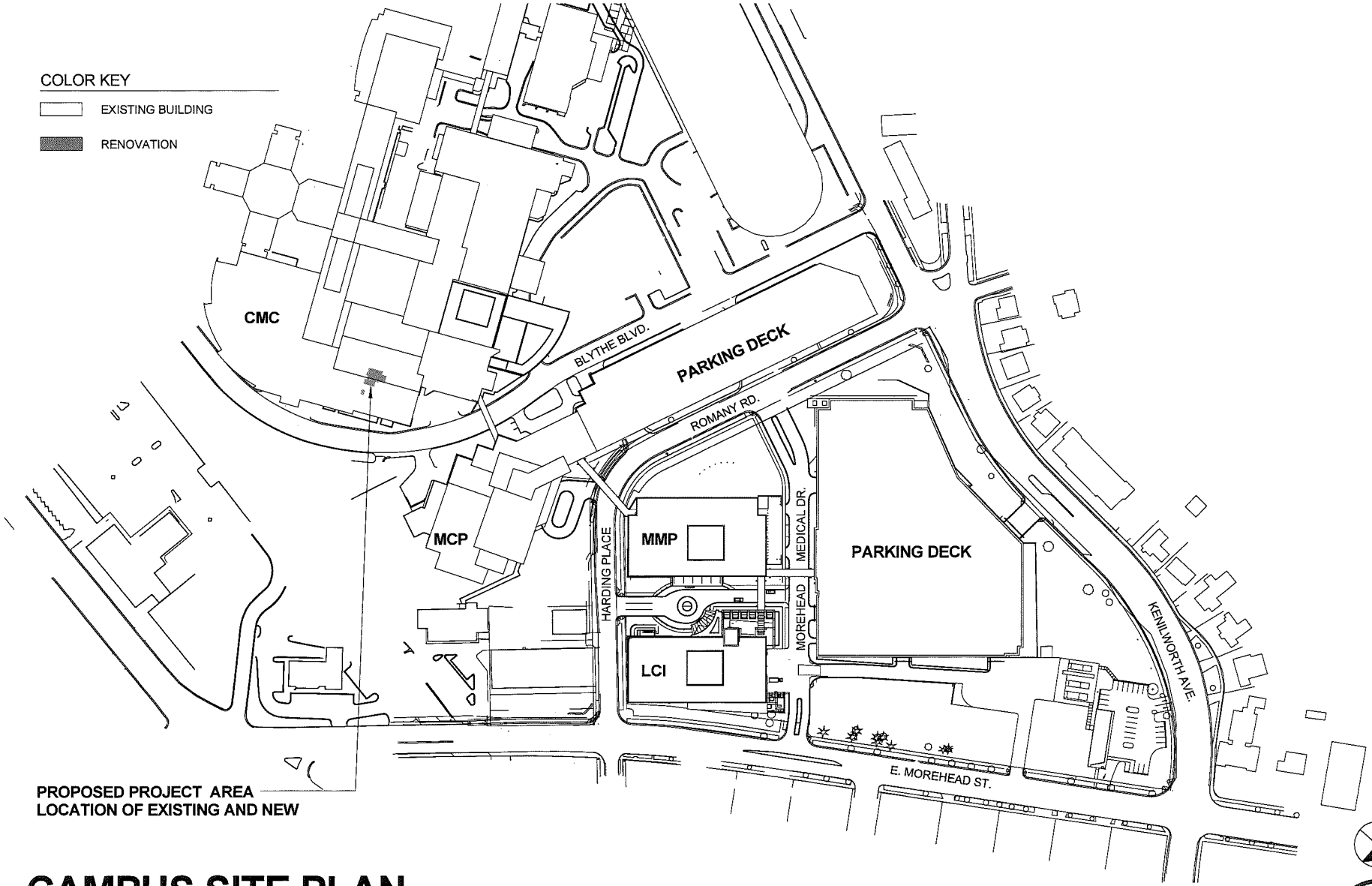
General Acute 976, Rehabilitation 13 , Psych 66. Substance Abuse 11,

Dedicated Inpatient Surgical Operating Rooms: 10
Dedicated Ambulatory Surgical Operating Rooms: 11
Shared Surgical Operating Rooms: 41
Dedicated Endoscopy Rooms: 12

Authorized by:

Secretary, N.C. Department of Health and Human Services

Director, Division of Health Service Regulation



CAMPUS SITE PLAN

CMC INTERVENTIONAL RADIOLOGY EQUIPMENT REPLACEMENT

Carolinas HealthCare System

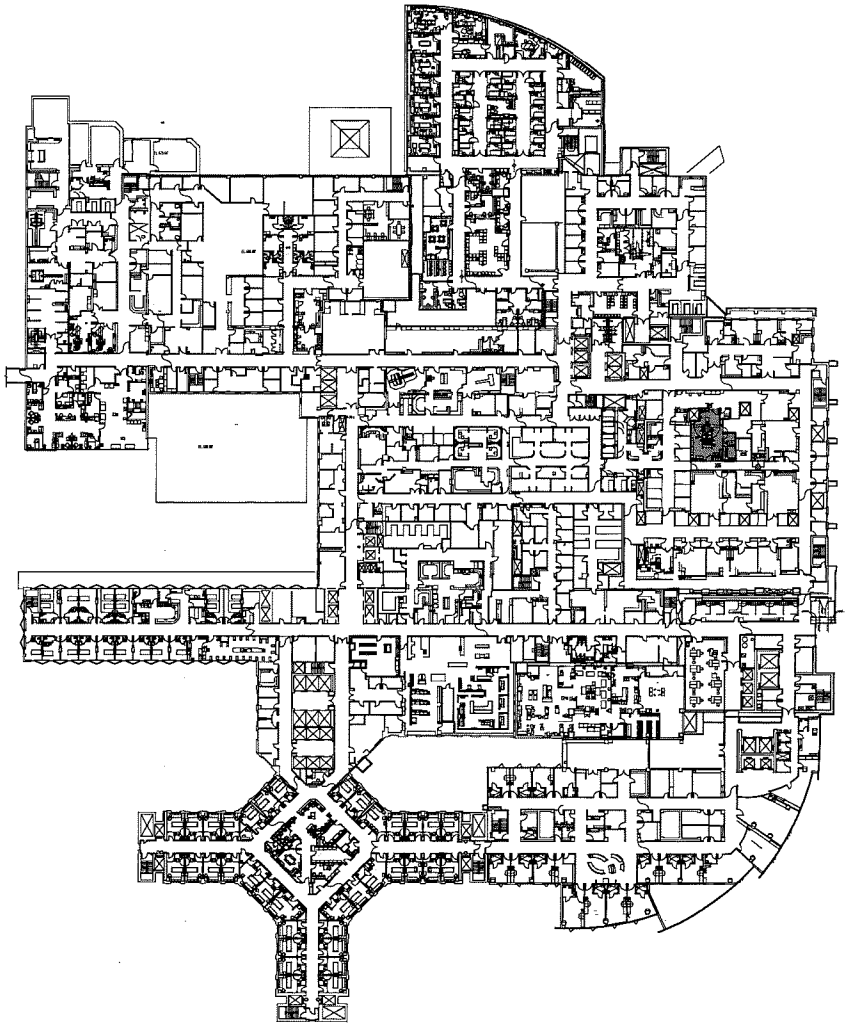
MARCH 24, 2014

Charlotte, NC

COLOR KEY

EXISTING BUILDING

RENOVATION



0' 20' 40' 80' 160'

CMC FOURTH FLOOR

CMC INTERVENTIONAL RADIOLOGY EQUIPMENT REPLACEMENT

Carolinas HealthCare System

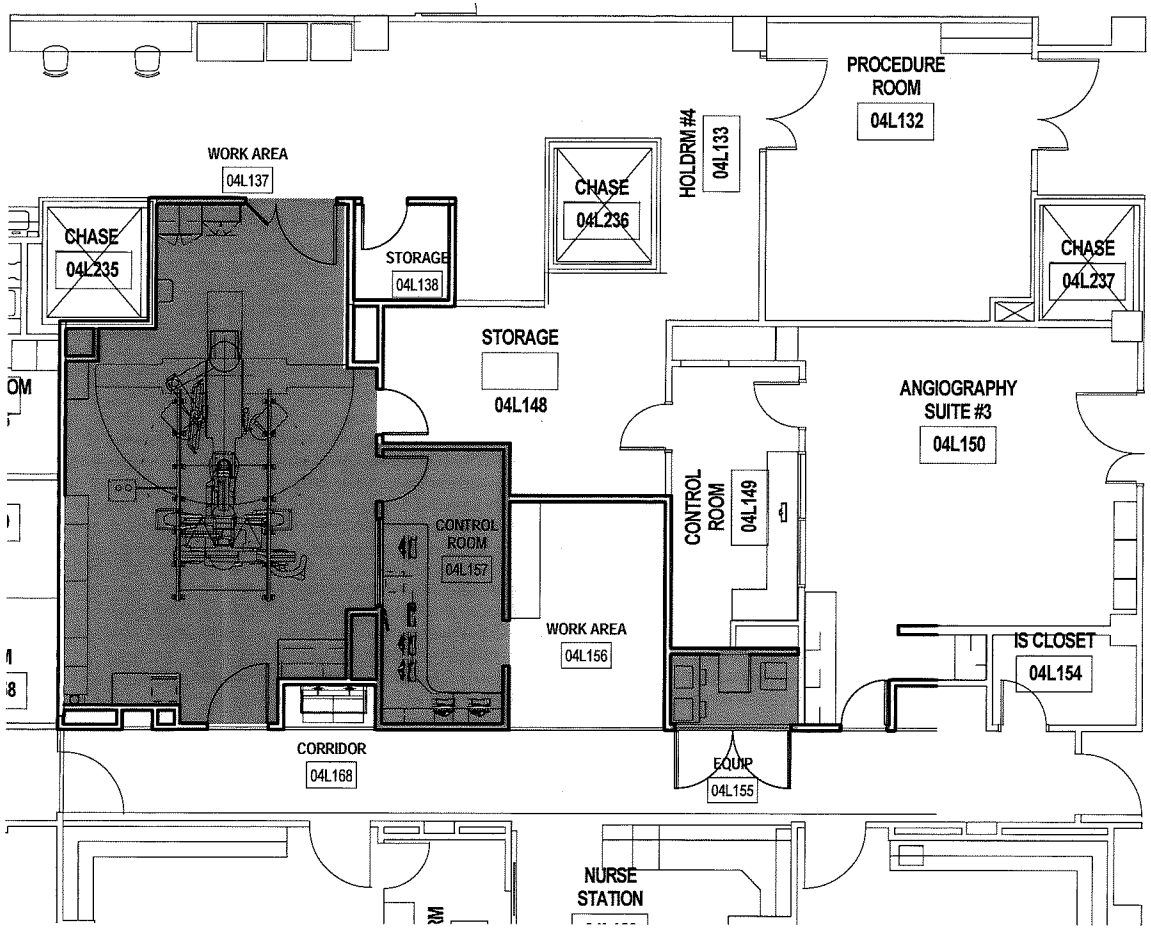
MARCH 24, 2014

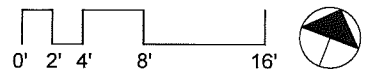
Charlotte, NC

COLOR KEY

EXISTING BUILDING

RENOVATION





CMC FOURTH FLOOR

CMC INTERVENTIONAL RADIOLOGY EQUIPMENT REPLACEMENT

Carolinas HealthCare System

MARCH 24, 2014

Charlotte, NC

Attachment B

TOSHIBA
Leading Innovation >>>

TOSHIBA AMERICA MEDICAL SYSTEMS, INC.

QUOTATION/ORDER
ORDER SUMMARY

SID NO: 30010917
DATE: 10/18/2013 QUOTE NO: 37891

PRESENTED TO: (COMPLETE LEGAL NAME)

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

DELIVER TO:

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

EQUIPMENT SUMMARY:

VFIBP1216/12.000

INFINIX-I NEURO VASCULAR BIPLANE SYSTEM

VASCULAR VF-I/BP/FD SYSTEM WITH CAT-880B HYBRID TABLE

VF-I BP/FD MAIN SYSTEM FOR USE WITH CAT-880B HYBRID TABLE

HYBRID CATHETERIZATION TABLE

ARMREST, ONE SIDE

BASEPLATE FOR CAS-880 1400 MM

VGA CONNECTION ADAPTER

LCD FLAT-PANEL COLOR MONITOR 21"

CABLE CARRIER KIT, 8'

This quotation shall remain valid until December 15, 2013.
All prices are F.O.B. destination.
Payment terms are: Cash - 0% down payment, 80% upon shipment, 20% net 30 days after shipment or upon availability for first use by purchaser, whichever comes first.

Additional terms and conditions appear at the end of this quotation. McKesson Agreement Required _____Yes _____No
Vital Software License Agreement Required _____Yes _____No
Please return signed quotation to: Toshiba America Medical Systems, 2441 Michelle Drive, Tustin, CA 92780.

ACCEPTED AGREED AND ORDERED:

CUSTOMER REQUESTED DELIVERY DATE: _____ _____ _____
TOSHIBA REP/CONTACT DATE

_____ _____ _____ _____
PURCHASER'S SIGNATURE/TITLE DATE ZONE SALES MANAGER DATE

TOSHIBA AMERICA MEDICAL SYSTEMS, INC.

QUOTATION/ORDER ORDER SUMMARY

DATE: 10/18/2013

SID NO: 30010917
QUOTE NO: 37891

PRESENTED TO: (COMPLETE LEGAL NAME)

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

EQUIPMENT SUMMARY: (continued)

ARMREST SET

ANTI-FATIGUE FLOOR MAT

SERVICE INSTALLATION COMPONENTS

BIOMED TRAINING –
TUITION, TRAVEL, AND LODGING

INTERVENTIONAL DASHBOARD - BP 27"
SOLUTION

19 INCH GRAYSCALE MONITOR (Qty 2)

56" MONITOR SUSPENSION FOR CAS RAILS
FOR VCI, CCI, BP OR DP ONLY

IMAGE CONNECTION MODULE

CONNECTION KIT FOR SINGLE
REFERENCE MONITOR

PROTECTOR FOR 56" MONITOR

MOUNTING BRACKET FOR
MONOCHROME MONITOR AND
CONNECTION HARDWARE (Qty 2)

56" MONITOR AND PERKINS VIDEO
INTEGRATION SOLUTION

QCA SOFTWARE BIPLANE EXPANSION

QUOTATION/ORDER ORDER SUMMARY

DATE: 10/18/2013

SID NO: 30010917
QUOTE NO: 37891

PRESENTED TO: (COMPLETE LEGAL NAME)

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

QCA/QVA MEASUREMENT SOFTWARE -- NO LVA

ROTATIONAL ANGIOGRAPHY TECHNOLOGY

SECONDARY CONTROL BOX WITH STAND FOR BI PLANE

3-D ANGIO WORKSTATION KIT

ADDITIONAL ON-SITE APPLICATIONS TRAINING - 32 HOURS

VITREA 2 XP WORKSTATION FOR VASCULAR 3-D

3-D MULTI MODALITY FUSION ROADMAP SOFTWARE

LOW CONTRAST IMAGING

3-D ROADMAP WITH NEEDLE GUIDANCE

ARMREST, ONE SIDE

TABLE SIDE RAIL SET (PAIR) FOR CAT-850B OR CAT-880B

TABLE EXTENSION FOR CAT-850B OR CAT-880B -- REQUIRES XBER-001A

INFINIX TABLE PAD 2" FOR CAT-880B

INFINIX TABLE WORK AREA PAD 2"

TOSHIBA AMERICA MEDICAL SYSTEMS, INC.

QUOTATION/ORDER ORDER SUMMARY

DATE: 10/18/2013

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CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

ANTI-FATIGUE FLOOR MAT

TABLE MOUNTED RADIATION SHIELD (Qty 2)

COMPENSATION FILTER SET

4.0 M CEILING TRACK FOR RADIATION SHIELDS, LIGHTS AND MONITORS

MAVIG CENTER MOUNTED CONTOUR CUT-OUT SHIELD 76/61 CM WITH PORTEGRA2 95/90 CM EXTENSION SPRING ARM

SURGICAL LIGHTS

MAVIG CABLE SPOOLER FOR LIGHT ON 4.0M TRACK

MAVIG M2 SC LED LAMP - SINGLE COLOR WHITE

POWER DISTRIBUTION UNIT FOR INFINIX-I

CORNER CABINET COVER

CABINET SIDE COVER

QUOTATION/ORDER ORDER DETAIL

DATE: 10/18/2013

SID NO: 30010917
QUOTE NO: 37891

PRESENTED TO:

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

Special Information & Terms

- This quotation/order will be subjected to the Agreement for Vascular equipment products between Premier Purchasing Partners, L.P. and Toshiba America Medical Systems, Inc., effective October 1, 2012. Reference contract no. PP-IM-198.

- This price is offered contingent on the receipt of a purchase order and executed quotation by December 15, 2013, and the installation of this system by September 23, 2014.

VFIBP1216/12.000 **INFINIX-I NEURO VASCULAR BIPLANE SYSTEM**

PRODUCT OVERVIEW
Infinix-i standard system includes a robust feature set. The following information provides an overview of the key items.

WorkRite Technology:
The unique flexibility and design of the C-arm, combined with low-profile FPD housing, offers better ergonomic orientation enabling "line of sight" over the system and patient to view the display monitors.

- Infinix-i systems extensive lateral C-arm movement, at the head end of the table, affords an exceptional advantage when accessing the upper extremities, such as in a radial or brachial procedure.
- The flexible mechanical design provides extensive longitudinal travel to allow full body coverage from the patients head to the toes without panning the table.

Access Halo:
Infinix-i creates the distinctive Access Halo working area.

- The C-arm has the ability to rotate 270 degrees around the table and image from any position, thus creating 180 degrees of open space at the head end of the table.
- Enables the clinician and ancillary staff to work unencumbered around the equipment especially while performing procedures that require head-end access.

Dose Management Program
A comprehensive set of dose management tools including grid controlled pulsed fluoroscopy, varzable dose level selection, Optibeam with virtual collimation control using LIH, electronic zoom, retrospective fluoro-store and the possibility to record and display image dose parameters.

CARDIOVASCULAR BIPLANE
Meeting the challenges of today's healthcare provider, the Infinix VF-i/BP has the ability to perform comprehensive diagnostic and interventional procedures. Infinix-i features technology designed for ease of use, increased efficiency, and improved safety and quality of care while delivering exceptional image quality with significant dose savings.

Infinix-i with 12"x 16" and 12" x 12" flat-panel detectors offers hovercraft like movements and accessible Access Halo (180 degree head end access) for enhanced patient and equipment interaction. With its five-axis floor mounted C-arm and agile ceiling C-arm, clinicians get extreme flexibility from both positioners, making it a great choice for interventional imaging. Ideally suited for neuro vascular procedures, the system also has the capability to perform other cardiovascular imaging procedures.

The Infinix-i digital processor (Type S, Version W4) expands on Toshiba's proprietary Advanced Imaging Processing (AIP) technology, which generate high-resolution images to enhance wire, stent, and device placement. Built-in features include DSA, enhanced fluoroscopy visualization, and Dynamic Trace imaging. The system's digital processor has multi-tasking capabilities to enhance control room workflow and reduce equipment footprint.

Infinix-i intuitive tableside controls help keep clinicians beside the patient by allowing for one touch control of mechanical and imaging functions such as positioning of the C-arm, real-time changing of dose levels, managing the monitor display, and archiving patient information.

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Infinix is designed to improve the patient experience and clinical effectiveness. The exclusive design of the systems mechanics that enable the C-arm to move around the patient and clinical team leads the industry.

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PRESENTED TO:

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

COMPONENT SUMMARY:

VE-VBP1216/12-OC **VASCULAR VF-I/BP/FD SYSTEM WITH CAT-880B HYBRID TABLE**

VF-I BP/FD MAIN SYSTEM FOR USE WITH CAT-880B HYBRID TABLE

STANDARD SYSTEM COMPONENTS

• CAS-880A	Five-Axis C-arm, Floor Mounted
• BLA-900A	Automatic Rotating Collimator (Qty 2)
• DSRX-T7345GFS	X-ray Tube (Qty 2)
• TFP-1216A/A1	12" x 16" Flat Panel Detector
• CAS-820B	Omega-arm, Ceiling Suspended
• TFP-1200A	12" x 12" Flat Panel Detector
• XGCP-882BA	Tableside Control HyperHandle
• CAT-880B	Hybrid Catheterization Table
• XBFS-880B	Multi-Function Footswitch for Bi-plane
• XTP-8100G	High-Frequency X-ray Generator 100 kW
• XTBP-8100G	Generator Bi-plane Expansion Kit
• DFP-8000A/W4	Multitasking Digital Fluoroscopy Processor
• XIDF-MIC802	Intercom Kit
• XIDF-MCC80B	Main Console
• XIDF-PON801	Power On Switch Box
• XIDF-BPS801/A2	Bi-plane Digital Kit
• XIDF-FS801B	Control Room Footswitch
• XJDK-002A	Dose Meter Controller for Bi-plane
• XJDC-009A	Dose Chambers (Qty 2)

QUOTATION/ORDER
ORDER DETAIL

DATE: 10/18/2013

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PRESENTED TO:

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

FIVE-AXIS C-ARM, FLOOR MOUNTED - CAS-880A
Unique, floor-mounted C-arm performs fluoroscopy, radiography and digital fluorography. It provides all clinical angles for diagnostic and interventional procedures with 6'6" head-to-toe and 6' fingertip-to-fingertip access for maximum patient coverage.

Specifications:
- Variable rotation speeds up to 50 degrees per second for fast C-arm angulation
- Stroke of flat panel detector movement (SID): 350 mm, motor-driven
- Isocenter height: 1110 mm
- ±90° column rotation
- ±135° floor-base rotation

Positioning Features to Enhance Workflow
The floor-mounted five-axis C-arm is designed to enhance workflow. Features include:

C-Arm Movement
- Flexible positioner that, combined with low-profile housing of the X-ray tube and FPD, optimizes imaging angles.
- Enables variable-speed axial rotations and isocentric fluoroscopy and fluorography with rotations from:
- RAO 120 degrees to LAO 120 degrees
- CRAN 50 degrees to CAUD 90 degrees (head-end position)

Auto-Positioning/Auto-Set Functions
- Specify auto-positioning settings sequentially for each study protocol.
- Quickly initiate C-arm positioning and system settings for the desired imaging requirements.
- Record and reproduce over 64 programs of:
- Angulations and SID
- Initial Field of View (FOV)
- Table heights
- Compensation-filter positions

Auto-Angle
For acquired images, auto-angle stores the following for one-touch recall (can be customized to site):

- C-arm angle
- SID
- Compensation filter position
- Table height
- Magnification size

Control Switch Assembly - HyperHandle
All system movements are operated from the control switch assembly mounted at the side of the catheterization table. This enables quick positioning with high accuracy.

AUTOMATIC ROTATING COLLIMATOR - BLA-900A (QTY 2)

- Four-filter, rotating collimator using industry-standard filtration materials, including multiple beam-dose adjustment filters
  - Aluminum 1.8 mm
  - Copper 0.2 mm
  - Copper 0.3 mm
  - Copper 0.5 mm
- Automatic or manual rotating collimator keeps a heads-up alignment
- +/- 135 degree rotation permits optimized collimation for off-angled imaging
- Compensation filters: Fe 1.2 mm
- Control remotely or manually

HIGH-CAPACITY X-RAY TUBE WITH LIQUID METAL BEARING - DSRX-T7345GFS (QTY 2)
Quiet, long-lasting and efficient, this tube ensures high throughput and fail-safe imaging.

- Triple-focus design provides small-focal-spot redundancy for uninterrupted procedure in the event of fluoro filament failure
- Highly efficient, pulsed fluoroscopy with built-in, beam-hardening filters reduces dose

QUOTATION/ORDER
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PRESENTED TO:

CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

- Continuous, high-speed (9000 rpm) anode rotation provides immediate display of fluoroscopic and fluorographic images

Other features include:

- Grid switched
- Maximum kV: 125 kV
- Focal spot: 0.3/0.6/1.0 mm
- Maximum ratings: 17/48/100 kW
- Target angle: 11 degrees
- Maximum anode heat storage: 3000 kHU
- Maximum housing heat storage: 2890 kHU
- Maximum cooling rate anode: 462 kHU/min
- Maximum cooling rate housing: 296 kHU/min
- Heat exchanger: water cooled
- Anode rotation: 9000 rpm

12" X 16" FLAT PANEL DETECTOR - TFP-1216A

State of the art flat panel detector technology enhances low dose imaging, offers exceptional image quality, and features Digital Subtracted Angiography (DSA) standard with superior contrast and dynamic resolution.

Specifications:

- Multiple Fields of View
  - 12"x16"
  - 12" x 12"
  - 8" x 8"
  - 6" x 6"
- 2048x1536 detector matrix
- Frame rates up to 30 fps
- 194 micron pixel size
- Removable Grid
- 14-bit pixel depth for extended dynamic range
- Rotation of ± 135°

QUOTATION/ORDER ORDER DETAIL

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CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

OMEGA ARM, CEILING SUSPENDED - CAS-820B

Unique, multi-axis, ceiling-mounted positioner provides clinical angles for diagnostic and complex interventional procedures.

Specifications:

- Variable rotation speeds up to 15 degrees per second
- Stroke of FPD movement: 380 mm, motor-driven
- Isocenter height: 1110 mm
- X-ray tube/FPD, simultaneous vertical movement: ±70mm

Variable Height Imaging Plane

Toshiba exclusive feature provides 70mm of synchronized x-ray tube and flat panel detector vertical travel. Enhancing patient safety and physician comfort, adjusting the height of the lateral imaging plane enables table height to be adjusted for physician height and provides the ability to maintain table height and patient position while adjusting vertical imaging plane with the lateral arm.

C-arm Flip

Toshiba exclusive feature enables the lateral c-arm to reverse the side of the x-ray tube and flat panel, mid procedure. As scatter radiation exposures are higher on the x-ray tube side by up to 50%, the Infinix provides flexibility for procedures on either side of the patient table while minimizing dose exposure to the operator.

Positioning Features to Enhance Workflow

The ceiling-suspended, multi-axis omega arm is designed to enhance workflow. Features include:

C-Arm Movement

- Flexible positioner that, combined with low-profile housing of X-ray tube and flat panel detector, optimizes imaging angles.

- Enables variable-speed axial rotations and isocentric fluoroscopy and fluorography with rotations from:
  - LAO 120 degrees to LAO 0 degrees
  - RAO 120 degrees to RAO 0 degrees
  - CRAN 45 degrees to CAUD 45 degrees

Auto-Positioning/Auto-Set Functions

- Specify auto-positioning settings sequentially for each study protocol.
- Quickly initiate C-arm positioning and system settings for the desired imaging requirements.
- Record and reproduce over 64 programs of:
  - Angulations and SID
  - Initial Field of View (FOV)
  - Table heights
  - Compensation-filter positions

Auto-Angle

For acquired images, auto-angle stores the following for one-touch recall (can be customized to site):

- C-arm angle
- SID
- Compensation filter position
- Table height
- Magnification size

12" X 12" FLAT PANEL DETECTOR - TFP-1200A

State of the art flat panel detector technology enhances low dose imaging, offers exceptional image quality, and features Digital Subtracted Angiography (DSA) standard with superior contrast and dynamic resolution.

Specifications:

- Multiple Fields of View
  - 12"x12"
  - 8"x8"
  - 7" x 7"

- 6″ x 6″
- 5″ x 5″

- 1536x1536 detector matrix
- Frame rates up to 60 FPS
- 194 micron pixel size
- Removable Grid
- 14-bit pixel depth for extended dynamic range
- Rotation of ± 135°

TABLESIDE CONTROL HYPERHANDLE - XGCP-882BA

Adjustable, rail-mounted, tableside control provides functional control of component movement and interface with digital console. Control features a slim profile and ergonomic design with tactile control buttons, enhancing the user experience.

HYBRID CATHETERIZATION TABLE - CAT-880B

Facilitates catheterization of cardiac, cerebral, abdominal and peripheral areas. As a Hybrid Catheterization Table, can also support some open surgical procedures. Micro-processor-controlled longitudinal movement enables table to be used for numerous radiographic techniques. Flat surface eases movement of patient on and off the table.

Specifications

- Sliding movements (manual):
  - Longitudinal stroke: 1,350 mm (53.1")
  - Lateral stroke: ±200 mm (±7.9")

- Vertical movement (motor-driven):
  - 754 mm to 1054 mm (29.7" to 41.5") (from floor level)

- Tilt:
  - 16 degrees (head up) and 16 degrees (head down) (motor-drive for Longitudinal shift when tilted)

- Lateral Tilt:
  - 16 degrees Left and 16 degrees Right (Manual lateral panning is possible, even when tilted laterally)

- Tabletop rotation range (manual pivot):
  - +90 to 0 degrees
  - 0 to -90 degrees
- Maximum patient weight:
  - 551 lbs. (250 kg IEC) at maximum table extension
  - Can support additional loading of up to 220 lbs. (100 kg) for cardiopulmonary resuscitation (CPR)

- Tabletop Material:
  - Carbon fiber reinforced plastic (CFRP)

- Standard accessories:
  - Tabletop mat
  - Drip infusion stand
  - Arm support, acrylic
  - Armrest, CFRP

MULTI-FUNCTION BI-PLANE FOOTSWITCH - XBFS-880B

Provides various image acquisition and other programmable functions via foot pedals and buttons, freeing the clinician's hands and allowing more focus on the patient and image display.

HIGH-FREQUENCY X-RAY GENERATOR 100 KW - XTP-8100G

Uses dual-inverter method for increased reliability with redundant inverter. Operates in normal/standard mode, low-dose mode and high-dose mode fluoroscopy.

Includes:

- Control console
- Control cabinet
- Power cabinet with high-speed starter

- Fluoroscopy control cabinet
- System power source cabinet

Fluorographic Ratings
- 125 kV, 800 mA (0.1 s)
- 100 kV, 1000 mA (0.1 s)
- 80 kV, 1250 mA (0.1 s)

Pulsed Fluoroscopy Function
- Fluoroscopic tube voltage range: 50 kV to 120 kV
- Fluoroscopic tube current range: 200 mA peak
- Pulse width: 1.0 ms to 13 ms
- Repetition pulse rate: 30, 20, 15, 10, 7.5, 5, 3, 2, 1 exp/s (can be selected at the time of installation)
- ABC (auto brightness control) function: provides the automatic adjustment of the tube voltage or the tube voltage and tube current to maintain uniform monitor brightness

Digital Subtraction Angiography (DSA) Functions
- Tube voltage range: 50 kV to 125 kV
- Tube current range: maximum 1250 mA (may be restricted depending on the rating of the X-ray tube assembly)
- Pulse width: 1.0 ms to 100 ms

Digital Angiography (DA) Functions
- Tube voltage range: 50 kV to 125 kV
- Tube current range: maximum 1250 mA (may be restricted depending on the rating of the X-ray tube assembly)
- Pulse width: 1.0 ms to 25 ms

Acquisition Modes (Single Plane)
DA Acquisitions:
- 30, 15, 10, 7.5, 5, 3, 2, 1 FPS at 1024x1024 x 8, 10 or 12-bits

DSA Acquisitions:
- 30, 15, 10, 6, 3, 2, 1, 0.5, 0.3 FPS at 1024x1024 x 12-bits

Fluoro Acquisitions:
- 30, 20, 15, 10, 7.5, 5, 3, 2, 1 FPS at 1024x1024 x 10 bits

Acquisition Modes (Bi-plane Mode, FPS indicated per plane)
DA Acquisitions:
- 15, 10, 7.5, 5, 3, 2, 1 FPS at 1024x1024 x 8, 10 or 12-bits

DSA Acquisitions:
- 15, 10, 6, 3, 2, 1, 0.5, 0.3 FPS at 1024x1024 x 12-bits

Fluoro Acquisitions:
- 15, 10, 7.5, 5, 3, 2, 1 FPS at 1024x1024 x 10 bits

MULTITASKING DIGITAL FLUOROSCOPY PROCESSOR - DFP-8000A/W4
Toshiba's digital processor provides a variety of features to enhance workflow and image processing.

Common Graphic User Interface
The new digital platform comes with a graphic user interface that is common across modalities on all Toshiba devices for more intuitive operation of all systems.

Advanced Image Processor (AIP)
Toshiba's exclusive imaging technology – AIP (advanced image processing) – is a combination of software, filters and proprietary hardware. AIP enables enhanced visualization of small devices and structures while providing real-time response to optimize the collection of critical imaging information during the most demanding procedures.

Advantages Over Conventional Imaging
- Virtually instant-on fluoroscopy: to help capture critical information at fluoro initiation.

- Noise and anti-blooming suppression technology: to provide a more uniform, high-resolution presentation of the image during fluoroscopy.
- Virtually zero lag during fluoroscopic imaging: to further enhance visualization during movement and while manipulating wires.

Proprietary Technology
AIP proprietary computing technology brings a new dimension to the overall performance of the system, adding specific functions for either targeted or general anatomical imaging to advance treatment planning and intervention. This includes:

- **Dynamic Pattern Recognition Filter (DPRF):** enhances visibility with digital recognition of devices to differentiate devices from anatomy.
- **Dynamic Digital Compensation Filter (DDCF):** improves exam efficiency and decreases dose by reducing the need for acrylic filters.
- **Super Noise Reduction Filters (SNRF):** allows for better visualization of anatomy and device by reducing noise, even with acute angulations. These enhancements reduce the amount of noise and lag in digital imaging for both digital angiography (DA) and fluoroscopy.

Dynamic Trace

- Use in a panning mode while imaging the lower extremities, and for Bolus Chase examinations, for a more uniform image display and background compression. This provides greater vessel detail even when vessels overlap bone.

Guideview Subtracted 2-D Roadmap Fluoro
Toshiba's proprietary Guideview technology is particularly useful during roadmap imaging and can reduce the amount of contrast injections and dose. Guideview provides the ability to:

- Fade background vs. vessel
- Reverse blacks and whites
- The combination of these two features provides the ability to better distinguish and visualize guide wires within the vessel
- Landmark image
- Adjust brightness and contrast realtime

- Create using LIH or acquired image

Features include;

- Peak Pixel Roadmap – provides the optimal, live, peak, fluoroscopic-subtracted roadmap image for enhanced treatment and device deployment.
- Add Subtracted Fluoroscopy – provides a completely subtracted display to better visualize live contrast injections or embolic materials.
- CO_2 DSA – provides the optimal, live, CO_2 (low-density pixel), fluoroscopic subtracted roadmap image for enhanced treatment and device deployment without the use of iodinated contrast media.

Fluoro Record and Fluoro Store

Enables the easy use of fluoro store and playback to further study regions of interest, potentially reducing overall radiation dose. Ideal for pediatric imaging.

- Tableside, one button control
- 90 seconds or 1020 frames of prospective recording Single Plane or 2040 frames in Bi Plane
- 60 seconds or 900 frames of retrospective recording

Digital Live Zoom

Live zoom digitally enlarges images in real time during both fluoroscopy and digital acquisition (DA) and offers the capability to provide a dose savings alternative compared to traditional field of view (FOV) magnifications.

Length / Diameter Measurement

Enables quick measurement from tableside or control booth. Up to 26 measurements can be made on one image. Calibration (three methods) can be performed by using; System Auto-calibration based from iso-center, or catheter French size, or object of known diameter or length.

Virtual Collimation using Last Image Hold
Provides an electronic outline to position the collimator and acrylic filter without fluoroscopy, further reducing dose.

DA and DSA
The user-friendly, icon-driven platform provides intuitive, rapid, tableside control over image processing and data management.

Radiographic "One Shot" Mode
Allows the capture of a single image at radiographic technique level. Image can be used as a mask for functions such as "Guideview" subtracted roadmap fluoro.

Simultaneity
True multi-tasking including:
- Image retrieval
- Image acquisition
- Post processing
- Archiving
- Printing

Prevision
Enables retrieval and display of previously acquired Infinix i-series images as reference during follow-up procedures.

Post-Processing Software
- Auto-window
- Roam and zoom
- Distance measurement and stenosis ratio measurement
- Spatial filtering (edge enhancement)
- Brightness/contrast control
- Landmarking percent
- Peak trace
- CO2 trace

- Shutter control
- Annotation
- Image rotation
- Pixel shift
- Panaramic view (available with S-DSA)

Image Recording Unit
High-capacity, high-speed disk (RAID Level 3):
- Maximum recording number:
  - 1024x1024 8/10/12-bits: 118,800/95,000/79,200 loss-less compression
- Online recording
- DVD-R and CD-R Recording
- DICOM 3.0, 512x512 or 1024x1024 8/10/12-bits, JPEG loss-less compression
- Up to 4,800 frames at 512x512 x 8 bits

DICOM Conformance and Dose Reporting
- DICOM Store/Store Commitment, Query/Retrieve
- DICOM MWM and MPPS
- DICOM Structured Dose Reporting provides a comprehensive data set of procedural dose information that is available for output to further analyze and track dose information.

MAIN CONSOLE - XIDF-MCC80B
Control room console with similar functions as exam room console, which enhances workflow due to a more intuitive use of the system. From inside the control room a user can:
- Operate the ring menu
- Use pre-programmed functions
- Control collimator and filters
- Review and manipulate images

POWER ON SWITCH BOX - XIDF-PON801
The Power On Switch attaches to the DFP monitor and includes system power on and off switches, an emergency power off switch and handheld controller for in control room digital acquisitions.

INTERCOM KIT - XIDF-MIC802
- Includes noise-reduction transformer
- Remote operator activates microphone/speaker with footswitch
- In-room microphone/speaker mounts on monitor support

FOOTSWITCH FOR CONTROL ROOM - XIDF-FS801B
Footswitch that enables fluoroscopy to be initiated from inside the control room.

DOSE METER CONTROLLER FOR BI-PLANE - XJDK-002A
Manages dose when combined with a dose chamber (part XJDC-009A or XJDC-016A) on the front of the beam-limiting device.

Sends the following data to the digital fluoroscopy processor:
- Exposure time
- Dose area product (DAP) in $\mu Gycm^2$
- Dose area product rate (DAP) in $\mu Gycm^2/s$
- Calculated surface dose in mGy
- Calculated surface dose in mGy/s

DOSE CHAMBERS - XJDC-016A (QTY 2)
For cardiovascular tube. Mounted on top of the collimator to enables dose data for real-time display.

Image Maker Express
The Image Maker Express is an online marketing resource designed exclusively for Toshiba customers that helps create outreach programs to generate awareness about imaging services.
- Includes positioning and messaging guides to help strategize communications efforts and tactics

- Contains product information, ready-to-use collaterals, and ideas for creating custom materials to promote new imaging capabilities

Image Maker Express gives you access to:
- Product images
- Clinical images
- PowerPoint presentations
- Sample brochures
- Sample press releases
- Marketing strategy tutorials

Updates at www.imagemaker.toshiba.com/express
**Offerings may vary per product*

APPLICATION TRAINING

Toshiba provides an outstanding training package with the purchase of each system to ensure users are proficient in the Infinix-i technology. Each system includes three phases of operator training.

Phase I: A four (4) day, off-site intensive course on the system operation.
- Conducted at the Toshiba Education Center in Irvine, California
- Accredited for continuing education by the ASRT Education Foundation
- Two attendance vouchers include course tuition and travel expenses provided with each system
- One technologist must attend prior to system installation
- The second voucher is valid for one year following installation
- Additional vouchers available for $3,500

Phase II: 32 hours of training that builds on the Phase I academy training.
- On-site at client facility (imaging patients required)
- Training for up to four technologists
- Technologists who attend the academy course must attend Phase II

Phase III: 16 hours of follow-up training.

- On-site at client facility
- Approximately 8-10 weeks after Phase II training

Additional On-Site Training:
Additional On-site training available for purchase.

CUSTOMER CARE SERVICES
Developed with customer input, Toshiba's innovative support programs have resulted in increased customer satisfaction. The following support programs are available to customers covered under warranty:

InTouch Center®
This centralized service facility provides applications and service support 24 hours a day, seven days a week.

InnerVision™ Plus
Remote system diagnostics are available around the clock to help identify problems and provide potential solutions before care is interrupted.

Technical Assistance
Customer support specialists are available 24/7 to help resolve technical issues in real time.

Local Customer Teams
A single call mobilizes a local team of Toshiba customer engineers. With an average of over 10 years of Toshiba experience and more than 100 hours of specialized training, they can resolve any performance issue.

Parts Support
A complete inventory of product parts maintained in 34 parts depot locations throughout the country for shipment when and where they are needed, any time of day or night.

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INTOUCH SERVICE MAINTENANCE AGREEMENTS
Toshiba offers a variety of customizable service plans ranging from shared risk to full security maintenance agreements that provide complete system coverage.

HYBRID CATHETERIZATION TABLE

Facilitates catheterization of cardiac, cerebral, abdominal and peripheral areas. As a Hybrid Catheterization Table, can also support some open surgical procedures. Micro-processor-controlled longitudinal movement enables table to be used for numerous radiographic techniques. Flat surface eases movement of patient on and off the table.

Please Note:
When combined with the Infinix DP-i, the tilt function of CAT-880B is not available when using the floor mounted c-arm positioner. Only available when using the ceiling mounted 12"x16" panel mounted c-arm.

Sliding movements (manual):
- Longitudinal stroke: 1,350 mm (53.1")
- Lateral stroke: ±200 mm (±7.8")

Vertical movement (motor-driven):
- -750 mm to 1050 mm (-29.5" to 41.3") (from floor level)

Tilt:
- 16 degrees (head up) and 16 degrees (head down) (motor-drive for Longitudinal shift when tilted)

Lateral Tilt:
- 16 degrees Left and 16 degrees Right (Manual lateral panning is possible, even when tilted laterally)

Tabletop rotation range (manual pivot):
- +90 to 0 degrees
- 0 to -90 degrees

Maximum patient weight:
- 550 lbs. (250 kg IEC) at maximum table extension
- Can support additional loading of up to 220 lbs. (100 kg) for cardiopulmonary resuscitation (CPR)

Material:
- Carbon fiber reinforced plastic (CFRP)

Standard accessories:
- Tabletop mat
- Drip infusion stand
- Arm support, acrylic
- Armrest, CFRP

ARMREST, ONE SIDE

Carbon fiber arm rest for the right or left side. One is included standard with CAT-850B table.

BASEPLATE FOR CAS-880 1400 MM

VGA CONNECTION ADAPTER

LCD FLAT-PANEL COLOR MONITOR 21"

- 21.3" LCD monitor
- 1600x1200 display matrix
- 280 cd/m^2 luminance (typical)

CABLE CARRIER KIT, 8'

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ARMREST SET

Table mounted arm rest enables support for both arms.

ANTI-FATIGUE FLOOR MAT

SERVICE INSTALLATION COMPONENTS

BIOMED TRAINING - TUITION, TRAVEL, AND LODGING

INTV-DASH/BP27.100 **INTERVENTIONAL DASHBOARD - BP 27" SOLUTION**

The Interventional Dashboard brings your important computer based tools to your fingertips. Up to eight (8) different systems can be interfaced into the Interventional Dashboard, providing a single collaborative workstation with one keyboard and one mouse.

Easily modify screen inputs and video sizes for optimal customization based on clinical need or preference. One system can be controlled at a time so you can update patient charts while viewing the information you need at the same workstation.

Includes:

Two Color LCD Displays
- 3.7 mega pixel (2560 x 1440)
- 27 inch diagonal (~596 x 335 mm, H x W)
- 300 cd/m2 typical luminescence rating

Connection Hardware
- Interface module
- Cabling to connect Live and Reference x-ray images
- Cabling to connect four external sources

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Keyboard and Mouse

Note: The monitor/ device is not for use for screening or diagnostic mamography

SMD19102TCS **19 INCH GRAYSCALE MONITOR (Qty 2)**

One Gray scale flat panel display monitor.

- 1 mega pixel (1280 x 1024)
- 19 inch diagonal
- High contrast ratio 900:1 and luminance 1000 cd/m^2

A240-1092R2 **56" MONITOR SUSPENSION FOR CAS RAILS FOR VCI, CCI, BP OR DP ONLY**

Optimizes monitor positioning around the patient table with an articulating arm for vertical height adjustments and a column that allows virtually 360 degree rotation. The transverse provides ample side-to-side positioning with a 60-inch movement range.

- Holds one VVIEW/56 monitor with a VESA 400 mount
- Total weight payload: 155 lbs (70.45 kg)
- Complete assembly included:
  - Bridge
  - Interface
  - Toshiba CAS rails
- Accommodates up to two monitor mount bracket assemblies or mounting brackets for monochrome monitors to rear-mount smaller monitors (typically 19")
- Includes attachments and grounding hardware including a 100-foot AC power cable

Other optional devices will add payload weight. Please consult with a Toshiba representative regarding adding items to this assembly.

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VVIEW56/ICM.100	**IMAGE CONNECTION MODULE** The ICM enables extension of a single DVI video output, maximum resolution 1920x1200@60Hz, providing the ability to interface ancillary medical devices for display on the 56" monitor. The ICM typically resides in the control room, where one ICM is needed for each video output intended to be displayed on the 56" monitor.
VVIEW56/SRMC.100	**CONNECTION KIT FOR SINGLE REFERENCE MONITOR** To be ordered with XIDF-REF801 or XIDF-REF802, this connection kit enables display of an additional x-ray reference monitor on the VVIEW 56" monitor.
VVIEW/GUARD	**PROTECTOR FOR 56" MONITOR** Provides protection for the 56" monitor glass. This commercially available device is easy to install and remove at a moment's notice, allowing greater flexibility for the medical staff to have individual preference when deciding when to use or not use the 56" monitor protection device.
VVIEW/BRACKET.100	**MOUNTING BRACKET FOR MONOCHROME MONITOR AND CONNECTION HARDWARE (Qty 2)** Mounts one 19" monochrome monitor (Toshiba Model # SMD19102TCS) at the rear of the VVIEW suspension assembly for use in fluoroscopic imaging. Connection hardware included.
PERKINS-56.100	**56" MONITOR AND PERKINS VIDEO INTEGRATION SOLUTION** Enabling state of the art video integration within the Interventional Lab by combining advanced video processing capabilities from Perkins Healthcare and an Eizo 56" monitor. This solution brings images from the multitude of medical devices used in a lab onto a single exam room 56" monitor with a flexible user interface for maximum control. Improve clinical workflow and access to information, where you need it.

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Components

- MD Control – 10" Table mount touch screen enables user control of monitor configurations and video display
- MD VISION - a medical grade video processor incorporating a dedicated architecture to ensure superior image quality and throughput
  - Integrates, and simultaneously processes, up to 12 video input sources, in any layout configuration, on a single 8 megapixel (3840 x 2160 resolution) display
  - Provides independent scaling, positioning and cropping of each input video source
- Cabling package provides necessary components to enable video connections between the 56" monitor, MD VISION and 12 input sources (any system which provides capability to display a video source)
- Mounting Rack for MD VISION components
- MD Guest Port – enables connectivity of video output within the exam room to accommodate mobile devices used during the case. Includes input of VGA /DVI-I / S-Video video formats for display on the 56" monitor within the exam room. Includes a wall mountable plate and MD Scaler to accommodate automatic recognition of variable video resolution formats
- Eizo 56" monitor – high resolution, 8 mega pixel LCD monitor display

XIDF-QCA802 **QCA SOFTWARE BIPLANE EXPANSION**

This kit is for Left Ventricular Analysis (LVA) and is only for use on bi-plane systems when acquiring images in bi-plane mode.

Note: If measurement capabilities are desired on a bi-plane system, this software (XIDF-QCA802) must be combined with QCA/LVA Measurement software (XIDF-QCA801).

Note: When XIDF-QCA804 is selected, this option is not compatible (see XIDF-QCA804 description for more detail).

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XIDF-QCA804 **QCA/QVA MEASUREMENT SOFTWARE -- NO LVA**

This kit is designed for quantitative analysis of blood vessels such as aorta, iliac arteries and renal arteries. QVA supports automatic contour detection for vessels up to 50 mm in diameter. On-line QCA can be applied to an acquired image during coronary diagnosis and PCI

Functionality:
- Automatic vessel contour detection
- Multiple calibration methods:
  - Catheter
  - Sphere
  - Distance

- Calibration and QCA/QVA can be performed at tableside
- Results can be recorded as a photo image in the DFP-8000 and displayed in the examination room as a reference image.

Note: This package does not have Left Ventricular Analysis (LVA) capability.

Note: This package (XIDF-QCA804) cannot be combined with other measurement software, specifically: XIDF-QCA801, XIDF-QCA802 or XIDF-QCA-803.

XIDF-ROT801 **ROTATIONAL ANGIOGRAPHY TECHNOLOGY**

The system has integrated multiple forms of rotation technology to include high-speed C-arm rotation for 3-D acquisition and 2-D rotational capabilities. High-speed rotation provides acquisition frame rates ideal for high-resolution 3-D reconstructions.

Specifications
- Image size: 1024x1024; 12-bit
- Image rate (FPS): Up to 25 FPS at 1024x1024 matrix
- Acquires images throughout and up to a 200-degree C-arm arc

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- X-ray exposure timing: angle trigger method
- Provides 3-D color image display for enhanced diagnosis, treatment planning and interventional procedures.

Rotational DSA

- Programmable single-axis rotation (manual or auto) to optimize display area

XGCP-882AA — **SECONDARY CONTROL BOX WITH STAND FOR BI PLANE**

Second control unit (satellite console) for Infinix-i Biplane Systems. Joystick control and function buttons virtually duplicates all functions on the HyperHandle tableside control and includes roll around mounting stand.

3D-ANGIO-KIT/5.100 — **3-D ANGIO WORKSTATION KIT**

This option for Infinix-i systems provides the necessary hardware and software for acquisition, reconstruction and display of 3-Dimensional Angiographic image data. From the head-end approach to the patient table, the c-arm can be programmed to acquire a serial acquisition over a 200-degree arc around the target area. A special high-speed reconstruction PC provides fast transfer and display of the 3-D images on the included Vitrea™ 3-D workstation. The included 3-D Angio Tableside Kit provides for tableside display and manipulation of the 3-D image data.

This option is integral and a prerequisite for the optional Low Contrast Imaging option from Toshiba, producing CT-like data from angiographic images.

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APPS-ONSITE-32 **ADDITIONAL ON-SITE APPLICATIONS TRAINING - 32 HOURS**

- Four (4) consecutive days (32 hours) additional on-site applications support for all modalities.
- $7,000 (trainer's expenses included)
- Training is held Monday through Friday only, with Monday mornings and Friday afternoons scheduled as travel time for trainers

VITREA 2 XP WORKSTATION FOR VASCULAR 3-D

Vitrea is a 2-D and 3-D workstation with real-time navigation, designed for CT, MR and VL/3-D Angio. Vitrea can also view Nuclear Medicine, Ultrasound, CR, DR, X-ray and PET with Softread and other products.

Specifications
Includes Intel® Xeon powered computer with the following specifications:

- MS Windows 7 PRO
- 2 large storage capacity system hard disks w/SCSI controller
- DVD+/- Read / Write capability
- 24" flat-panel monitor TFT active display
- DICOM 3.0 Compatibility (print, store, CD write)
- Video I/O
- Network Interface 10/100/1000
- Modem
- Optical IntelliMouse, mousepad and keyboard
- 1-year system maintenance

Training
Each system includes two, 2-day training sessions.

- Initial Training: two days, at customer site
- Follow-Up Training: two days at customer site
- All travel and living expenses paid by Vital Images

A Vital Images representative will contact the customer to set up training.

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XIDF-3DP803 **3-D MULTI MODALITY FUSION ROADMAP SOFTWARE**

3-D Multi Modality Fusion Roadmap is a software application that enables overlay of live 2-D fluoro images, with previously acquired 3-D image data sets, to enhance 3-D anatomical reference. The previously acquired 3-D data sets can be rendered from either a CT scanner or the Toshiba Infinix-i systems using LCI or 3-D Angio.

3-D volumes are rendered using the Infinix-i 3-D reconstruction PC, then projected on the Infinix-i exam room monitor where it is overlaid by live 2-D fluoro images. This functionality enables real-time integration of 3-D anatomical information to better aid clinical guidance and procedure planning. Automated c-arm positioning is integrated with the 3-D anatomical reference image for enhanced clinical workflow.

Requires 3D-ANGIOKIT and 3D Roadmap software. LCI software is required when customer desires to perform tableside CT-like imaging for creating a 3D model of the LA for ablations as well as using previously acquired CT datasets.

XIDF-LCI801 **LOW CONTRAST IMAGING**

This feature provides for the acquisition and display of "CT-like" imaging.

- Select acquisition of 2-D image data sets of approximately 250, 400 or 600 images/projections. Approximate acquisition times:
  - 250 images: 10 seconds
  - 400 images: 15 seconds
  - 600 images: 20 seconds
- The higher the image number, the better the resolution of the resulting 3-D volume and MPR's (Multi-Planar Reformations).
- Image display parameters are optimized to low-contrast image densities, and are particularly useful for soft-tissue diagnosis.

- LCI images are transferred and displayed on the 3-D workstation automatically from the DFP-8000 upon completion of acquisition.

Prerequisite: 3D-ANGIO

XIDF-3DP802/A1 **3-D ROADMAP WITH NEEDLE GUIDANCE**

Infinix-i software option to provide 3-D Angio image super-imposed over live fluoroscopy

- Superimposed 3-D image is linked to all system mechanical movements to maintain accurate alignment of 3-D image with fluoroscopy projection as c-arm or table position changes
- Device enhance processing improves visualization of fine metallic interventional devices
- Simple, convenient user interface for manual adjustment, if desired
- Multiple display modes, solid or hollow vessel with transparency adjustment
- Needle Guidance
  - Included as standard with Toshiba's Volume Navigation 3-D Roadmap is a Needle Guidance application, which provides pathway planning and real-time guidance for percutaneous interventions

Prerequisite:

- 3-D Angio, including XIDF-3DI801 and XIDF-AWS801 software and hardware.
- Modality image which the Needle Guidance application can fuse:
  - 3D-Angio (3D-DA, 3D-DSA) included as standard
  - LCI (Low Contrast Imaging, Requires option XIDF-LCI801
  - CT Requires option XIDF-3DP803

XBAR-001A **ARMREST, ONE SIDE**

Carbon fiber arm rest for the right or left side. One is included standard with CAT-850B table.

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CAROLINAS MEDICAL CENTER
1000 BLYTHE BLVD LOOP RD
CHARLOTTE, NC. 28203

XBER-001A — **TABLE SIDE RAIL SET (PAIR) FOR CAT-850B OR CAT-880B**

- Designed for application with the CAT-850B or CAT-880B tables only
- Tableside rail set (2), one for each side

Designed to accommodate Infinix table controls and common accessories (i.e., I.V. pole)

XBET-001A — **TABLE EXTENSION FOR CAT-850B OR CAT-880B -- REQUIRES XBER-001A**

Auxiliary table extension installed at the foot end of the table. Easily folds over on to the foot end of the table when not in use.

9448 — **INFINIX TABLE PAD 2" FOR CAT-880B**

Two-inch thick table pad to increase patient comfort during long procedures.

- Made with a combination of dense foam and memory foam.
- Has a black, stretch cover.

Fits CAT-880B tabletop.

9412 — **INFINIX TABLE WORK AREA PAD 2"**

2" x 27.6" x 29.5" pad for foot end of Infinix table used as a work station. Coordinates with 9409 Table pad, elevates work area to flush level with patient pad area. Black stretch vinyl cover.

345AFS — **ANTI-FATIGUE FLOOR MAT**

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CAT-TRS/V2 — **TABLE MOUNTED RADIATION SHIELD (Qty 2)**

Provides additional radiation protection from direct and scatter X-ray exposure.

- Mounts on Toshiba Infinix-i tableside rails, reversible for right or left side mounting
- Three-piece radiation shield assembly:
  - Main shield: 181 mm x 645 mm
  - Angled side shield: 700 mm x 645 mm
  - Tabletop scatter shield: 700 mm x 700 mm (removes to facilitate patient loading)
- Wall storage holders:
  - Upper shield: 600 mm
  - Lower shield: 460 mm
- Includes mini-rail for mounting table-function controls, if desired.

RIDGES-PLUS — **COMPENSATION FILTER SET**

Set of seven silicone rubber compensating filters for digital subtraction arteriography of the lower extremities.

- Two rulers incorporated in midline filters
- Two Velcro straps and three foam wedges provided for patient immobilization

4.0M-CEILING-TRACK.100 — **4.0 M CEILING TRACK FOR RADIATION SHIELDS, LIGHTS AND MONITORS**

The Mavig 4.0 M Ceiling Track enables up to two devices (maximum of one light) to be mounted on a single trolley. The 360 column with trolley has one electrified pin with 330 degrees of rotation capability and a lower pin with 360 degrees of rotation. Each pin has a load capacity of 18 kgs. Each trolley comes standard with a Brake Handle Strap which makes the system more user friendly.

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OT90001-US	**MAVIG CENTER MOUNTED CONTOUR CUT-OUT SHIELD 76/61 CM WITH PORTEGRA2 95/90 CM EXTENSION SPRING ARM**
	The MAVIG Center Mounted Contour Cut-Out Shield measures 76 cm by 61 cm and includes a Portegra2 Extension Spring Arm with two arms measuring 95 cm and 90 cm. The transparent acrylic shield contains 0.50 mm Pb and is easily manipulated into position by use of a height adjustable handle.
SURGICAL-LIGHTS.100	**SURGICAL LIGHTS**
	MAVIG CABLE SPOOLER FOR LIGHT ON 4.0M TRACK
LE70044	**MAVIG M2 SC LED LAMP - SINGLE COLOR WHITE**
	The MAVIG M2 SC LED Lamp provides 100,000 LUX of focusable light ranging from 14 to 28 cm field size. A single color temperature of 4,500 Kelvin is provided.
PCDU-100VL	**POWER DISTRIBUTION UNIT FOR INFINIX-I**
	Provides most of the electrical site preparation for Toshiba vascular systems. Site preparation is simpler and less expensive because all components and functions are delivered in a single roll-in cabinet. Customer provides a single 480V Three-phase power feed and the PCDU properly distributes power to the Toshiba Infinix system. Distribution Unit includes: • Voltage conversion • Power Distribution

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CABC-100A	**CORNER CABINET COVER**
	This part is required for installations in which the electronics cabling for Infinix-i must be routed to floor-level cable race rather than the usual ceiling-level cable race. This part provides for both left and right end covers, whichever is needed per cable routing at individual site installation.
CABS-100A	**CABINET SIDE COVER**
	This side cabinet cover is required in select installations due to site limitations in the Equipment Room, such as a floor-to-ceiling support beam causing separation of cabinets. This part provides for both left and right side cover needs.

TOTAL QUOTE PRICE **$1,500,000.00**
Applicable Sales Tax Additional

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OPTIONS

XIDF-SFL801 **SPOT FLUORO**

add **$19,760.00**

Spot Fluoro software takes collimation to a new level by enabling asymmetric collimation and Last Image Hold (LIH) Overlay.

With asymmetric collimation a desired region of interest (ROI) can be specified anywhere in the field of view. This off-center, free spot, collimation capability enhances workflow by allowing the collimator blades to work around the patient so repositioning is eliminated.

LIH Overlay merges the collimated live fluoro onto the full field of view LIH, on a single monitor. Reference anatomy or landmarks remain on the same monitor, enabling collimation when traditional methods restricted its use.

Note: This software is not compatible with a Dual Plane system or with a floor mounted 12" x 16" c-arm.

XIDF-STP801 **DSA STEPPING**

add **$10,868.00**

Software that provides micro processor control of stepping functions, and real-time display of DSA images. Stepping is user controlled. Ideal for use during lower-extremity contrast-injected examination.

Specifications

- Image size: 1024x1024; 12-bit
- Image rate (FPS): 15, 10, 6, 3, 2, 1 can be selected at the time of installation
- Stages: 8 (7 steps)
- Speed: 1.7 sec/step
- Stroke:
  - 120 mm (4.7") minimum

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  - 220 mm (8.6") maximum
- Maximum sweep: 1350 mm (53.1")
- Three sweeps:
  - Set up exposures at fluoro dose levels (abdomen to feet)
  - Mask acquisition (feet to abdomen)
  - DSA exposures (abdomen to feet)

TOSHIBA AMERICA MEDICAL SYSTEMS, INC.

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ADDENDUM

ALL INFORMATION CONTAINED IN THIS QUOTATION IS CONFIDENTIAL AND MAY NOT BE DISCLOSED TO ANY THIRD PARTY WITHOUT TOSHIBA'S PRIOR WRITTEN CONSENT.

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PRODUCT WARRANTY AND SERVICES COVERAGE

SYSTEM WARRANTY TERMS
Toshiba America Medical Systems, Inc. (TAMS) warrants to Customer that the product(s) to be delivered hereunder will be free from defects in material, manufacturing workmanship, and title. Any product or part furnished to Customer during the warranty period (stated in the table below) to correct a warranty failure shall be warranted to the extent of the unexpired term of the warranty applicable to the repaired or replaced product or part.

The warranty period shall commence on the date the Product is delivered to Customer. However, if TAMS installs the product, the warranty period for such product shall commence on the date the installation of the product is complete. Notwithstanding the foregoing, in the event that the installation of the product is delayed for a total of thirty (30) days or more from the date of delivery for any reason or reasons for which TAMS is not responsible, the warranty period for such product may, at TAMS' option, commence on the thirtieth (30th) day from the date such product is delivered to Customer.

WARRANTY EXCLUSIONS
Warranty coverage does not include any defect which results, in whole or in part, from (1) negligent storage or handling of the product by Customer, its employees, agents, or contractors, (2) failure of Customer to prepare the site or provide power requirements or operating environmental conditions in compliance with any applicable instructions or recommendations of TAMS, (3) absence of any product, component, or accessory recommended by TAMS but omitted at Customer's direction, (4) any design, specification or instruction furnished by Customer, its employees, agents, or contractors, (5) any alteration of the product by persons other than TAMS, (6) combining TAMS' product with any product furnished by others, (7) combining incompatible products of TAMS, (8) improper use of the product, improper maintenance of the product by a party other than TAMS, or failure to comply with any applicable instructions or recommendations of TAMS, or (9) acts of God, acts of civil or military authority, fires, floods, strikes or other labor disturbances, war, riot, or other causes beyond the reasonable control of TAMS.

TAMS does not warrant any products not manufactured by Toshiba such as, without limitation, monitors, cameras, computer equipment, etc. Such items will be furnished subject only to the manufacturer's warranty, if any, and without any warranty whatsoever by Toshiba.

Warranty coverage also excludes consumables, including but not limited to cassettes, magazines, imaging screens, disks, cartridges, etc.

GLASSWARE WARRANTY
Glassware, including X-ray tubes and Image Intensifiers, are provided separate warranties. Glassware included with the purchase of a new system is governed by the glassware warranty, described below, not the system warranty.

CT X-ray tubes carry a prorated warranty based on the number of rotations shown below or 12 months, whichever comes first.

Tube Type	Prorated Warranty
CXB-750/D/4A Aquilion 16, 32 and 64 system models	200,000 rotations*
CXB-750/E/2A (Megacool™ V) Aquilion Premium	150,000 rotations*
CXB-750/E/2A (Megacool™ V) Aquilion ONE	150,000 rotations*
CXB-750F/2A - Aquilion ONE ViSION	100,000 rotations*
CXB-750G/2A Aquilion PRIME	200,000 rotations*

*A rotation is any 360-degree or single rotation of the gantry with X-rays on.

The following time-based warranty terms apply to all other glassware:

Tube Type	Time-Based Warranty
Liquid Bearing Tubes (DSRX-TXXXX)	12 months, non-prorated
All Other X-ray tubes	12 months, non-prorated
Image Intensifiers	18 months, non-prorated

GLASSWARE PRORATION CALCULATION:
Credits for glassware that fails during the warranty periods stated above will be calculated as follows:

Tubes with Prorated Rotation Warranty:

$$\text{Credit} = 1 - \frac{\text{Number of Rotations Used}}{\text{Number of Rotations Warranted}}$$

Credit will be applied to the purchase of the replacement X-ray tube or Image Intensifier. Complete glassware coverage during warranty period may be purchased from the local services organization at an additional charge.

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Tubes with Non-Prorated, Time-Based Warranty:

Tubes with a non-prorated warranty will be replaced during the initial warranty period at no charge to the customer. The replacement tube carries the remainder of the original warranty. For example, a tube with a 24-month non-prorated warranty fails at month thirteen (13), the tube is replaced at no charge and carries eleven (11) months of warranty.

REMEDIES
If TAMS determines that any product fails to meet any warranty during the applicable warranty period, TAMS shall correct any such failure by either, at its option, repairing, adjusting, or replacing without charge to Customer any defective or nonconforming parts of the product. TAMS shall have the option to furnish either new or remanufactured replacement parts or assemblies. During the warranty period, Toshiba will furnish free of charge any upgrades, including software required to correct any defect in the warranted products or as required under applicable laws.

WARRANTY SERVICE
Warranty service during the applicable warranty period will be performed without charge to Customer during TAMS' normal business hours, Monday through Friday, excluding holidays. Subject to the availability of personnel, after-hours service is available upon request at an additional charge.

The remedies set forth herein are conditional upon Customer promptly notifying TAMS within the applicable warranty period of any defect or nonconformance and making the product available for correction.

DISCLAIMERS AND LIMITATIONS ON LIABILITY
TAMS' obligation to repair or replace defective parts will be Customer's sole and exclusive remedy for a breach of the warranty set forth above. SUCH WARRANTY WILL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

In no event shall TAMS be liable for special, incidental or consequential damages. Toshiba does not warrant that the operation of the warranted products will be uninterrupted.

WARRANTIES BY PRODUCT LINE

	COMPUTERIZED TOMOGRAPHY	MAGNETIC RESONANCE	PACS SYSTEMS	ULTRASOUND	X-RAY VASCULAR	X-RAY R/F & RAD
SYSTEMS AND MAJOR COMPONENTS	12 Months	12 Months	12 Months	12 Months	12 Months	12 Months
ACCESSORY OPTIONS	6 Months	6 Months	6 Months	6 Months	6 Months	6 Months
REPLACEMENT & OPTIONAL PARTS	90 Days	90 Days	90 Days	90 Days	90 Days	90 Days
UPGRADE COMPONENTS	90 Days	90 Days	N/A	12 Months	6 Months	6 Months
MISC. WARRANTY ITEMS	Detectors: Solid State 12 Months	N/A	N/A	Transducers: 12 Months	N/A	N/A

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TERMS AND CONDITIONS OF SALE

1. GENERAL TERMS. Unless otherwise specified on the face of this document, this Quotation/Order ("Agreement") will remain valid only if accepted by Customer no later than 60 days from date of submission to Customer.

2. TITLE AND RISK OF LOSS. Title and risk of loss to the Equipment purchased under this Agreement will pass to Customer: (a) if Toshiba is to provide installation, upon Toshiba's completion of installation, or (b) if Toshiba will not provide installation, upon delivery by Toshiba to a common carrier at Toshiba's facility from which the Equipment is shipped.

3. TERMS OF PAYMENT. Prices stated are F.O.B. Customer's facility. All taxes which are payable by Toshiba in connection with the sale, use, or possession of the Equipment (excluding income taxes), will be paid by Customer in addition to the quoted price. Terms of payment for, C.T., M.R.I, X-Ray, and the McKesson System will be cash-10% upon execution of this Agreement, 70% upon delivery, balance due upon completion of installation and/or availability for first use, whichever is earlier. Terms of payment for Ultrasound will be cash-10% upon execution of this Agreement, 90% NET upon completion of installation and/or availability for first use, whichever is earlier. All invoices paid after due date will be assessed a late payment charge of the lesser of 1 1/2% per month or the maximum rate permitted by law.

4. DELAYS. If Customer changes the scheduled delivery date specified on the face of this document ("Scheduled Delivery Date") during the period of 120 days preceding such date, Customer will nevertheless pay the installment of the purchase price which would have been payable upon delivery, on the Scheduled Delivery Date as if delivery had been made on such date. In addition, Customer will pay all extra costs incurred by Toshiba as a result of such delay, including, without limitation, storage and transportation. Storage fees will be charged at commercially comparable rates for storage on Toshiba's site. If delivery is delayed by 12 months or more from the Scheduled Delivery Date, except through the fault of Toshiba, the price set forth in this Agreement may be increased by Toshiba to a level equal to the prevailing price in effect at the time of the revised delivery date.

5. ACCEPTANCE BY TOSHIBA. This Quotation/Order will not be binding on Toshiba even if signed by a Toshiba employee, until Customer's order for the Equipment is booked by Toshiba's Headquarter office.

6. EQUIPMENT INSTALLATION. Toshiba will install all Equipment purchased under this Agreement and connect them to existing power and/or plumbing lines at no additional charge to Customer. Customer will be responsible for electrical wiring, plumbing, carpentry, plastering, painting, or all other site preparation required prior to installation and connection of the Equipment by Toshiba. Customer will provide space at the installation site for the safe storage of Toshiba's tools, test equipment and other materials used for installation at no charge to Toshiba. Customer shall, at its cost, obtain all permits and licenses required by governmental authorities in connection with the installation and operation of the Equipment. The Equipment may contain certain components, which may have been re-manufactured. However, such components will meet the manufacturer's specifications for new components as of the date of completion of installation. Customer acknowledges that the System and Software are designed to operate within certain power, temperature, airborne contamination, and humidity ranges. Customer will be responsible for, without limitation: (i) preparing and maintaining the Customer facility in conformance with the Site Preparation Guide; (ii) maintaining its network infrastructure; (iii) providing Toshiba, McKesson or its subcontractors access to a network connection in or near the area of the System being serviced by the equipment service staff; and (iv) supplying computer grade AC power. The Equipment relies upon a stable grounded connection to the main power grid in order to function effectively. Customer acknowledges that AC power supply quality may be a problem in old facilities or in those facilities receiving poor quality utility service and that power conditioning may be necessary in such cases.

7. EQUIPMENT OPERATION. Customer agrees that all Equipment purchased under this Agreement will be operated exclusively by duly qualified technicians and/or medical doctors in a safe and reasonable manner in accordance with Toshiba's written instructions, applicable laws and regulations, and for the purposes for which such Equipment was intended.

8. LIMITED WARRANTY AND REMEDY. **A. For the Toshiba Equipment:** For the warranty period described below by product, Toshiba, as its only obligation, will replace or repair, without charge to Customer during Toshiba's normal working hours (if Customer requests warranty service outside such hours, Customer will pay overtime premium for labor), any component of the Equipment that is defective in materials or workmanship, provided such defect is reported to Toshiba within the warranty period. Toshiba's warranty

period is as follows: (a) Systems and Major Components – one year from date of completion of installation; (b) Accessories/Options (except glassware) – six months from date of completion of installation. Components not manufactured by Toshiba will be furnished subject only to the manufacturer's warranty, if any, and without any warranty whatsoever by Toshiba. During the warranty period, Toshiba will furnish free of charge any upgrades, including software required to correct any defect in the Equipment or as required under applicable laws.

B. For the McKesson System: The McKesson System ("System") will be covered by a 12-month warranty beginning the date of completion of installation of the System (the "Warranty Period"). The warranty covers repair of any defects in materials or workmanship related to the computer equipment ("Equipment") that is included in the System purchased by Customer under this Agreement. The warranty also covers correction of any McKesson software ("Software") that does not conform with its functional specifications. In order to receive services during the Warranty Period, Customer must provide McKesson and Toshiba with remote access through a VPN. During the Warranty Period, Customer is entitled to (a) all Generally Available Software Updates except for Updates that are separately priced and marketed by Toshiba or McKesson, and (b) all Generally Available Software Upgrades, except for Upgrades that are separately priced and marketed by Toshiba or McKesson. ***"Software Updates"*** means Software modifications, enhancements, corrections, improvements, and patches to the existing functionality of Customer's licensed version of the McKesson Software (e.g., version 4.1 to 4.3 to 4.5). ***"Software Upgrades"*** means new versions and future releases of the McKesson Software (e.g. version 4.x, 5.x, 6.x). Software Updates or Upgrades that provide new features not originally purchased may be separately priced and marketed. Software Updates and Software Upgrades to the McKesson Software will be delivered remotely, on-line. The warranty does not include any non-McKesson Software, the labor and travel expenses associated with on-site installation of a Software, or any hardware addition or modification.

The warranty set forth in this Section will not apply:

a. if Customer operates the Software on equipment other than Equipment purchased from Toshiba or attaches other equipment to the System not approved by Toshiba;
b. if a person or entity other than McKesson or its authorized third party suppliers modifies the Software;
c. as a result of Customer's improper use, abuse, neglect of the Equipment, including failure to maintain environmental conditions within the operating range specified by the Equipment manufacturer or accident;
d. as a result of viruses or other corruption caused by external entities; or
e. for damages resulting from a Force Majeure condition described in Section 13 below.

C. The Following Applies to Both the Toshiba Equipment and the McKesson System: Toshiba does not warrant that the operation of the Equipment of the System will be uninterrupted. All defective parts replaced by Toshiba will become the property of Toshiba. Replacement parts may be re-manufactured. However, such parts will meet the manufacturer's specifications for new components as of the date of completion of installation. TOSHIBA'S OBLIGATION TO REPAIR OR REPLACE DEFECTIVE PARTS OR SOFTWARE WILL BE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR A BREACH OF THE WARRANTY SET FORTH IN THIS AGREEMENT. SUCH WARRANTY WILL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The warranty set forth in this Agreement will not apply to, and Toshiba will not be liable for any defects resulting from misuse, repairs performed by unauthorized third parties, accidents, acts of God, or neglect of anyone other than Toshiba.

9. LIMITATION OF LIABILITY. NEITHER TOSHIBA NOR CUSTOMER WILL UNDER ANY CIRCUMSTANCES BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INCIDENTAL, OR EXEMPLARY DAMAGES OR ECONOMIC LOSS ARISING OUT OF OR RELATED TO THE TRANSACTIONS CONTEMPLATED IN THIS AGREEMENT, EVEN IF EITHER PARTY IS APPRISED OF THE LIKELIHOOD OF SUCH DAMAGES OCCURRING. IN NO EVENT WILL EITHER PARTY'S LIABILITY TO THE OTHER (WHETHER BASED ON AN ACTION OR CLAIM IN CONTRACT, TORT, INCLUDING NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE) ARISING OUT OF OR RELATING TO THE TRANSACTIONS CONTEMPLATED IN THIS AGREEMENT EXCEED THE AGGREGATE AMOUNT ACTUALLY PAID BY CUSTOMER TO TOSHIBA UNDER THIS AGREEMENT. THE LIMITATION OF LIABILITY SET FORTH ABOVE WILL NOT APPLY TO CLAIMS FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY EQUIPMENT DEFECTS, OR TO CLAIMS FOR PATENT INFRINGEMENT.

10. SECURITY INTEREST. Toshiba hereby reserves and Customer grants to Toshiba a security interest pursuant to the Uniform Commercial Code, in and to the Equipment (and all products and proceeds of it) until full payment of the purchase price is received.

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In the event that Customer finances its acquisition of the Equipment through a lease, conditional sale contract, secured loan agreement or other financing agreement (collectively, "Lease") with Toshiba, then the security interest in the Equipment (and all products and proceeds thereof) shall secure all obligations of Customer due and to become due under the Lease.

11. REMOVAL OF EQUIPMENT. Until Toshiba has received full payment of the purchase price, Customer will not remove all or any part of the Equipment from Customer's premises, nor will Customer sell, lease, transfer or otherwise part with the possession of, or permit any lien or encumbrance to be placed on all or any part of the Equipment.

12. REMEDIES OF TOSHIBA. If Customer fails to make any payment when due under this Agreement or under any other agreement between Customer and Toshiba, or becomes insolvent or makes an assignment for the benefit of creditors, or if a petition in Bankruptcy is filed by or against Customer, or if the financial responsibility of Customer becomes impaired or unsatisfactory in Toshiba's reasonable judgment, or if Customer otherwise breaches any of the terms and conditions of this Agreement, then Toshiba may, without prior notice or demand, defer shipments, cancel the balance of the order, suspend performance of any obligation (including without limitation, all obligations set forth under Limited Warranty And Remedy above), and/or take immediate possession of the Equipment delivered, until the full purchase price of the Equipment is paid by Customer or, at Toshiba's discretion, until security satisfactory to Toshiba is given by Customer. Any costs incurred by Toshiba as a result of suspending performance or repossession or collection will be payable by Customer. Toshiba may sell repossessed Equipment with proceeds to be applied to unpaid balance and expenses incurred in sale, repossession and collection. Customer will pay any remaining deficiency. Toshiba may exercise any other rights available to it by law.

13. EXCUSED PERFORMANCES. Neither party will be liable to the other for non-performance or delay in performance resulting directly or indirectly from any occurrences beyond such party's control, including without limitation, strikes or other labor troubles, acts of God, war, accidents, fires, floods, other catastrophes, inclement weather, transportation, unavailability of materials and labor, delays caused by suppliers, or laws, regulations, or acts of any governmental agency.

14. SOFTWARE. All rights and interest in any software that may be furnished under this Agreement, and any updates and enhancements to it, will remain the property of Toshiba. Such software is being furnished to Customer under a non-exclusive license. Customer will not, or allow others to decompile, modify, copy, reproduce, or transcribe the software nor allow third parties to use the same without Toshiba's prior written consent. Upon Toshiba's request, Customer will execute an End-User Software License Contract, in a form to be mutually agreed between the parties.

15. CANCELLATION. Customer may not cancel the order subject to this Agreement except with Toshiba's prior written consent. In the event of such cancellation, Toshiba will be entitled to recover any and all damages suffered by it caused by the cancellation as allowed by law, but in no event less than an amount equal to twenty percent (20%) of the purchase price for a restocking charge.

16. ASSIGNMENT. Neither party may assign any of its obligations under this Agreement without the prior written consent of the other party However, some of the obligations stated in this Agreement, such as the ones relating to installation of the McKesson System and warranty may be performed by Toshiba's contractors or suppliers.

17. EXPORT REGULATIONS. This Agreement involves products, and/or technical data that may be controlled under the U.S. Export Administration Regulations and may be subject to the approval of the U.S. Department of Commerce prior to export. Any export or re-export by Customer, directly or indirectly, in contravention of such Regulations is prohibited.

18. ATTORNEY'S FEES AND COSTS. In the event of any legal proceeding involving any party to this Agreement against the other relating to the subject matter of this Agreement, the prevailing party in such proceeding will be entitled to recover attorney's fees, expert fees, and court costs against the non-prevailing party.

19. ENTIRE AGREEMENT. This quotation as well as the attached McKesson Pass Through Terms and Conditions contains the entire agreement between the parties and supersedes all prior and contemporaneous agreements between the parties, whether oral or written, relating to its subject matter, including, without limitation, all different or additional terms and conditions which may be contained in Customer's bid documents, purchase order or any other documents furnished by Customer. The provisions of this Agreement may not be modified unless in writing and executed by both parties.

Carolinas HealthCare System

PO Number: C1333062
PO Date: 12/23/2013

Vendor:	Ship To:	Bill To:
TOSHIBA AMER MED SYS	**100 CAROLINAS MEDICAL CENTER, CMC DOCK**	**CHS ACCOUNTS PAYABLE**
2150-F NORTHMONT PARKWY	**1000 BLYTHE BLVD, LOOP RD DOCK**	**P.O. BOX 37972**
	CMC Dock	
	C	
DULUTH,GA 30096	CHARLOTTE, NC 28203	CHARLOTTE, NC 282377972
Phone:800-229-2119	**GLN:**	
Fax:	Phone: Fax: 704-512-7266	Phone: 704-512-7345 Fax:

Terms & Conditions :

SHIPMENT: All Goods will be suitably packed for shipment. All shipments will be declared by Vendor at full valuation to obtain full insurance coverage. Vendor will ship by means specified on the P.O., or, if not so specified, by customary common carrier or mail service. Each package in a shipment will be accompanied by a packing list specifically referencing the P.O. number.

Carolinas HealthCare System (CHS) will have a reasonable time to inspect all Goods and Services. Any nonconforming Goods may be returned, in whole or in part, at Vendor's expense, and any nonconforming Services may be rejected, in whole or in part. If Vendor delivers more than the quantity of Goods specified in any P.O., CHS may return the excess Goods at Vendor's expense. Payment for Goods or Services specified in a P.O., the inspection of such

Goods or Services, or the failure to so inspect the Goods and Services will not constitute a waiver or exercise of any rights or remedies available under the Agreement or applicable law. If any Goods provided under the Agreement is a chemical substance or mixture, Vendor will furnish CHS with the following: (a) a Material Safety Data Sheet for the chemical, (b) the CAS name and number of the chemical substance, or the goods composing a mixture and (c) a certificate that the chemical has been registered with the Environmental Protection Agency in accordance with the Toxic Substances Control Act and complies with the requirements of such Act. Vendor will comply with OSHA's "Hazard Communication Standard." All electrical equipment to be provided under the Agreement will conform to (and have attached appropriate labeling indicating that such equipment meets the requirements of) the UL, ETL or CSA standards or other standards recognized by the laws of the State of North Carolina and any local laws of the city and county in which the facility is located when delivered to as directed in the P.O. ANY EQUIPMENT THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THIS SECTION MAY BE REJECTED AND RETURNED TO VENDOR AT VENDOR'S EXPENSE. ACKNOWLEDGEMENT: Promptly after receiving any P.O., Vendor will acknowledge CHS by either accepting the P.O. as submitted or communicating any proposed additions or changes. These revisions not become effective until CHS accepts the Vendor's proposed additions or modifications in writing. Vendor agrees to comply with any other specific terms of the P.O. If Vendor is unable to comply with those terms, including being unable to provide the total quantity specified, CHS will have the option to cancel, at no charge, the applicable P.O. or any portion of that P.O., in addition to any other remedies available under law. IN NO EVENT WILL VENDOR SHIP SUBSTITUTING GOODS OR TENDER SUBSTITUTING PERFORMANCE WITHOUT THE PRIOR WRITTEN CONSENT OF CHS. These remedies are in addition to, and not in lieu of, those remedies available to CHS under the Uniform Commercial Code.

INVOICES: Vendor will submit itemized invoices for the goods or services provided under the Agreement. The invoices will be submitted within three (3) business days of when the Goods or Services are provided in accordance with the P.O. Invoice must mirror P.O. to receive prompt payment. Any invoice sent with a discrepant line will not be paid until this variance is cleared. Invoices must match in catalog number, line number, Quantity, Description, Price, and P.O. Number.

AGREEMENTS: Any conflict between these terms and those that may have been signed with CHS will be governed by the signed agreement between the vendor and CHS; otherwise these shall supersede all others, whether sent prior or subsequent to receipt of this order by vendor, unless CHS accepts the Vendor's proposed additions or modifications in writing.

Carolinas HealthCare System

PO Number: C1333062
PO Date: 12/23/2013

Vendor:	Ship To:	Bill To:
TOSHIBA AMER MED SYS 2150-F NORTHMONT PARKWY DULUTH,GA 30096 Phone:800-229-2119 Fax:	**100 CAROLINAS MEDICAL CENTER, CMC DOCK** **1000 BLYTHE BLVD, LOOP RD DOCK** CMC Dock C CHARLOTTE, NC 28203 **GLN:** Phone: Fax: 704-512-7266	**CHS ACCOUNTS PAYABLE** **P.O. BOX 37972** CHARLOTTE, NC 282377972 Phone: 704-512-7345 Fax:

Vendor Code: 62182
PO Type: CAP
PO Status: Draft
Customer No:

Comment:
JOHN PALMER 704.512.7305 OR 704.634.3442
Project:CERP2014 CE CMC RM 4 IVR

QUOTE NO. 37891
"THIS ORDER IS CONTINGENT UPON NORTH CAROLINA STATE CON APPROVAL."

Please fax confirmation to 704.512.7266 or email to levi.melvin@carolinashealthcare.org

Thank You, Levi Melvin

Composed By: Melvin, Levi - CHS Capital Buyer Special
Terms: 2/10,NET30
FOB: DESTINATION
Delivery Date: 06/15/2014
Tax ID Number: Not Null

Line / Modified	Vendor Catalog	Order Quantity	Mfr Catalog / Contract	Charge Dept. / Sub-Ledger	Project / Sub-Project	Price / Discount / List Price	Ext. Price / Tax / Ext Price w/ Tax
Item: [non-catalog]		INFINIX-I NEURO VASCULAR BIPLANE SYSTEM					
1		1 EA	Unknown	106-1004000000-180003		$1,500,000.00	$1,500,000.00 $108,750.00 $1,608,750.00

PO Sub Total:	$1,500,000.00	Tax Total:	$108,750.00	Purchase Order Total:	$1,608,750.00

Signature(s): _____ _____

Bayer HealthCare

Quotation

Quote To:
Carolina's Medical Center
1000 Blythe Blvd
CHARLOTTE NC 28203-5871
USA

Bayer HealthCare LLC

Quotation number: 0020008695
Customer number: 0003142660
Date: 03/13/2014
PO Number: ART PED
Page: 1

Valid from: 03/13/2014 to 05/13/2014

Trey Karn
Professional Sales Consultant
864-415-2397
trey.karn@bayer.com

**Toshiba IVR Room **

We deliver according to the following terms and conditions: ***Currency:*** USD
Terms of payment: 30 d. w/o discount of inv. net
Terms of delivery: Carriage paidFOB Destination

Item	*Part No*	*Qty*	*Unit Price*	*UoM*	*Amount*
1	ART700 PEDL MARK 7 ARTERION,PEDESTAL,SYSTEM	1 PCE	35,000.00	1 PCE	35,000.00
	Discount (Value)				9,800.00-
	Contract Price R&I		25,200.00		25,200.00
	Net value		25,200.00		25,200.00
2	59894521 HEAT MAINTAINER,SYRINGE,ARTERION	1 PCE	390.00	1 PCE	390.00
	Discount (%)		28.00-		109.20-
	Net value		280.80		280.80
3	83869683 Pressure Jacket, 150ml	1 PCE	685.00	1 PCE	685.00
	Discount (Value)				273.88-
	Contract Price R&I		411.12		411.12
	Net value		411.12		411.12

When applicable, State and Local taxes will be calculated on the order. If you are exempt from taxes, contact customer support at 1(800)633-7231
If pricing and terms of this order are based upon your current Group Purchasing Organization (GPO) affiliation, any change to your current affiliation may require a new quote or updated terms and pricing.
THANK YOU FOR YOUR ORDER

Bayer HealthCare

Quotation

Item	*Part No*	*Qty*	*Unit Price*	*UoM*	*Amount*
4	60339684	1 PCE	2,700.00	1 PCE	2,700.00
	MARK 7 ARTERION,KIT,ADJ, TM				
	Discount (Value)				756.00-
	Contract Price R&I		1,944.00		1,944.00
	Net value		1,944.00		1,944.00
5	INS ART 700-P	1 PCE	1,159.00	1 PCE	1,159.00
	INSTALL MARK 7 ARTERION PEDESTAL				
	Net value		1,159.00		1,159.00
6	VIRTUALCARE	1 PCE		PCE	
	VIRTUALCARE INCL IN WARRANTY/SVC PROGRAM				
7	DCS-ART 700-1W	1 PCE	3,838.00	1 PCE	3,838.00
	DIRECTCARE STAND MRK 7 ARTERION 1YR WX				
	Net value		3,838.00		3,838.00
				Total	32,832.92

NOTE: If using signed quote as a purchase order please complete the following information:

Print Name: _____

Signature: _____

Title: _____

PO #: _____

Phone #: _____

When applicable, State and Local taxes will be calculated on the order. If you are exempt from taxes, contact customer support at 1(800)633-7231
If pricing and terms of this order are based upon your current Group Purchasing Organization (GPO) affiliation, any change to your current affiliation may require a new quote or updated terms and pricing.
THANK YOU FOR YOUR ORDER

Bayer HealthCare

BAYER PRODUCT TERMS AND CONDITIONS

If Customer is a member of a group purchasing organization ("GPO") who has a contract with Bayer, the terms of that GPO Agreement will supercede the terms herein.

The following terms and conditions will not apply to the license of Bayer's Radimetrics or Certegra products. Such products are subject to a separate license agreement.

1. Modifications. The prices and terms on this Quote are not subject to verbal changes or other agreements unless approved in writing by Bayer.

2. Acceptance. Bayer's products and services are sold only under the terms and conditions stated on this quotation. Acceptance of any Purchase Order is expressly and exclusively made conditional on your assent to these terms and conditions. Any different or additional terms and conditions that may appear in your Purchase Order or any other document sent by you, shall have no effect. Bayer expressly objects to and rejects all inconsistent or additional terms, conditions and limitations contained on any of your forms or other writings. If you do not communicate your objection to these terms and conditions in writing and within a reasonable time, or if you accept the goods covered by this Quote, you will be deemed to have accepted these terms and conditions and they will control in all instances. If the Products include embedded software or if you are purchasing software, BY HAVING THE SOFTWARE INSTALLED AND USING THE SOFTWARE PURCHASED HEREUNDER, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS QUOTE, DO NOT INSTALL OR USE THE SOFTWARE AND NOTIFY BAYER IMMEDIATELY.

3. Pricing. Prices are based on costs and conditions existing on the date of this Quote and may be changed by Bayer before final acceptance. The pricing for products provided pursuant to this Quote may reflect or be subject to discounts, rebates, or other price reduction programs. Please be advised that you are obligated to: a) fully and accurately disclose the amount of any such discounts, rebates, or other price reductions in your cost reports or claims for reimbursement to Medicare, Medicaid, or health care programs requiring such disclosure and b) provide such documentation to representatives of the Secretary of the Department of Health and Human Services and state agencies upon request. Unless noted otherwise, the value of any product listed as $0.00 on this Quote may constitute a discount that you should evaluate when filing such reports. You may request additional information from Bayer in order to meet your reporting or disclosure obligations, by writing to the address set forth in this Quote. All payments are due net thirty (30) days on the total invoiced amount. For all new customers Bayer requires a thirty percent (30%) pre-payment for all capital equipment orders, unless otherwise agreed to by Bayer. Bayer must approve any payment terms other than net thirty (30) days.

4. Shipping. All shipping dates are tentative. Bayer will make every reasonable effort to meet shipping dates referenced in this Quote. However, Bayer will not be liable for its failure to meet any such date.

5. Installation. The cost of installation is not included in the product price and is your responsibility unless otherwise stated. For details on equipment installation, you should consult with your Bayer Sales Representative or refer to your Products Manual, which is included with your equipment.

If this Quote includes installation of an overhead counterpoise system (OCS) it is your responsibility to ensure a suitable mounting location for the system. The counterpoise ceiling plate is required to be installed prior to Bayer installation of the counterpoise system and installed in accordance with the specifications listed in the installation manual. The OCS ceiling plate should always be installed by a qualified Structural Engineer and/or Architect. In addition, if applicable building codes require the use of a conduit, you are responsible for ensuring that a conduit is available prior to Bayer's installation.

If this Quote includes a Certo wireless network it is your responsibility to ensure the approval of the Information Technology Department to allow the operation of the wireless network at your site.

If this Quote includes a Spectris Solaris with an Integrated Continuous Battery Charging System (iCBC), installation will require a standard power outlet in the scan room, or authorization to install a filter through the penetration panel.

6. License. If the Products include embedded software, or if you are purchasing software, Bayer grants to you a non-exclusive license to use such software provided by Bayer, solely in connection with, or to operate, the Products. Use of the software for any other purpose is strictly prohibited. This license is effective on the date you begin using the Products and software and will continue in effect unless you return the Products or software or if the license is terminated because

Please reference the quote number on your PO and fax to 412-406-0952

you breach any provision of these Terms. Upon termination you shall immediately cease use of all software and shall return the Products and software to Bayer. The software copyright is owned by Bayer and is protected by United States copyright laws and international treaty provisions. Bayer does not transfer title to the software to you, but retains the rights to make and license the use of all copies. You shall not copy, translate, disassemble, or decompile nor create or attempt to create, by reverse engineering or otherwise, the source code from the object code of the software. You are not permitted to modify or make derivative works of the software and ownership of any unauthorized modification or derivative work shall vest in Bayer.

7. Warranty. Bayer warrants that all new Bayer products are free from defects in workmanship or material under proper, normal use and service for a period of one year (12 months) from shipment, unless a longer period is provided on the warranty with the products, or as otherwise provided herein.

Bayer warrants that all refurbished Bayer products shall perform in accordance with the documentation provided, under proper, normal use and service for a period of the shorter of a) 90 days from installation or b) six months from shipment, unless a longer period is provided on the warranty with the products, or as otherwise provided herein.

If this Quote includes a Monitor, peripheral accessories on the Monitor such as pulse oximeter sensors, extension cables, power cables, fiber optic cables, ECG leads, capnography accessories (excluding patient connections), blood pressure cuffs, batteries, and extension tubing are warranted for a period of 90 days from the date of installation, but not to exceed six months from the date of shipment.

If this Quote includes disposable products or angiographic catheters, Bayer's warranty shall be limited to repair or replacement of any defective disposable product or angiographic catheter upon receipt of the defective product and a Bayer Return Goods Authorization. You acknowledge that the disposables and the equipment are a system and your actions regarding your equipment may invalidate your warranty on the disposables.

During the warranty period, there shall be no charge for any action deemed necessary by Bayer, including parts, travel, or labor to fulfill the terms of the warranty, during local business hours of 8:30 a.m. to 5:00 p.m., Monday through Friday, except holidays.

Your actions may invalidate this warranty. If Bayer determines that an equipment or disposable problem is due to any of the following, you agree to pay Bayer for all labor, travel, material handling and shipping at Bayer's, or Bayer's agents, standard rates:

a) Malfunction or damage due to spillage of any type of fluid in or on the unit.

b) Malfunction due to operator error, including failing to follow specified provisions of the Operations Manual.

c) Malfunction or damage due to unauthorized modification or repair. Unauthorized actions may jeopardize functionality, reliability, or operator and patient safety. Therefore any unauthorized modification or repair shall render this warranty void and relieve Bayer from any further obligation. Bayer must review and authorize all modifications and repairs. This service may be obtained by contacting the Bayer Service Department.

d) Malfunction or damage due to the use of non-Bayer or non-approved accessories. The use of accessories in connection with the equipment may jeopardize functionality, reliability or operator and patient safety. Therefore any use of non-Bayer or non-approved accessories (such as non-Bayer disposables or in the case of any PET/CT product, the use of vials or vial shields that are not approved by Bayer) shall render this warranty void and relieve Bayer from any further obligation.

e) Damage by fire, floods, or other disaster commonly known as "Acts of God".

f) If the Products include any Counterpoise system, any system malfunction, damage or failures due to improper installation or not meeting Bayer's specific requirements for level and plumb and/or loading as specified in the Bayer manuals.

g) If the Products include any Counterpoise system, any ceiling or wall support structure used to mount or support an Injector Head Counterpoise System is excluded from Bayer's warranty. Bayer does not in any way warrant such structure.

8. Warranty Exclusions. EXCEPT AS PROVIDED IN THE ABOVE WARRANTY SECTION, BAYER EXPRESSLY DISCLAIMS ALL WARRANTIES OR CONDITIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY,

NONINFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE (WHETHER OR NOT BAYER IS AWARE OF YOUR INTENDED USE OF THE PRODUCT), AND ALL SUCH WARRANTIES ARE EXPRESSLY EXCLUDED. IN NO EVENT SHALL BAYER BE LIABLE FOR ANY LOST PROFITS OR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR OPERATION OF BAYER's PRODUCT OR SERVICE. Some states do not allow the exclusions on limitation of incidental or consequential damages, so the above limitations may not apply. This Limited Warranty gives you specific legal rights and you may also have other rights.

9. Software Warranty. If the Products include embedded software or if you are purchasing software, Bayer warrants that the software will substantially conform to the functional specifications contained in the Operations Manual for one year following delivery. This warranty shall not apply if you use the software in a manner that is not authorized or not in accordance with the user instructions or if you modify the Products or the software or if a party other than Bayer provides service to the Products or software. Bayer does not warrant that the software will operate uninterrupted or that it will be free from minor defects or errors that do not materially affect its performance. Your sole and exclusive remedy for any damages or loss in any way connected with the software whether due to Bayer's negligence or breach of any other duty shall be, at Bayer's option: i) to bring the performance of the software into substantial compliance with the functional specifications or ii) return of an appropriate portion of any payment by you with respect to the portion of the software that is not functioning.

10. Indemnification. Bayer agrees to indemnify, defend and hold you harmless from any liability, loss, expense, cost, claim or judgment (including attorneys fees), arising out of any claim for property damage, or personal injury or death where the product is alleged to have caused or contributed to the damage, injury or death, provided that this indemnification does not extend to injuries, damages or death to the extent caused by the negligence, reckless disregard or intentional acts of you or any third party.

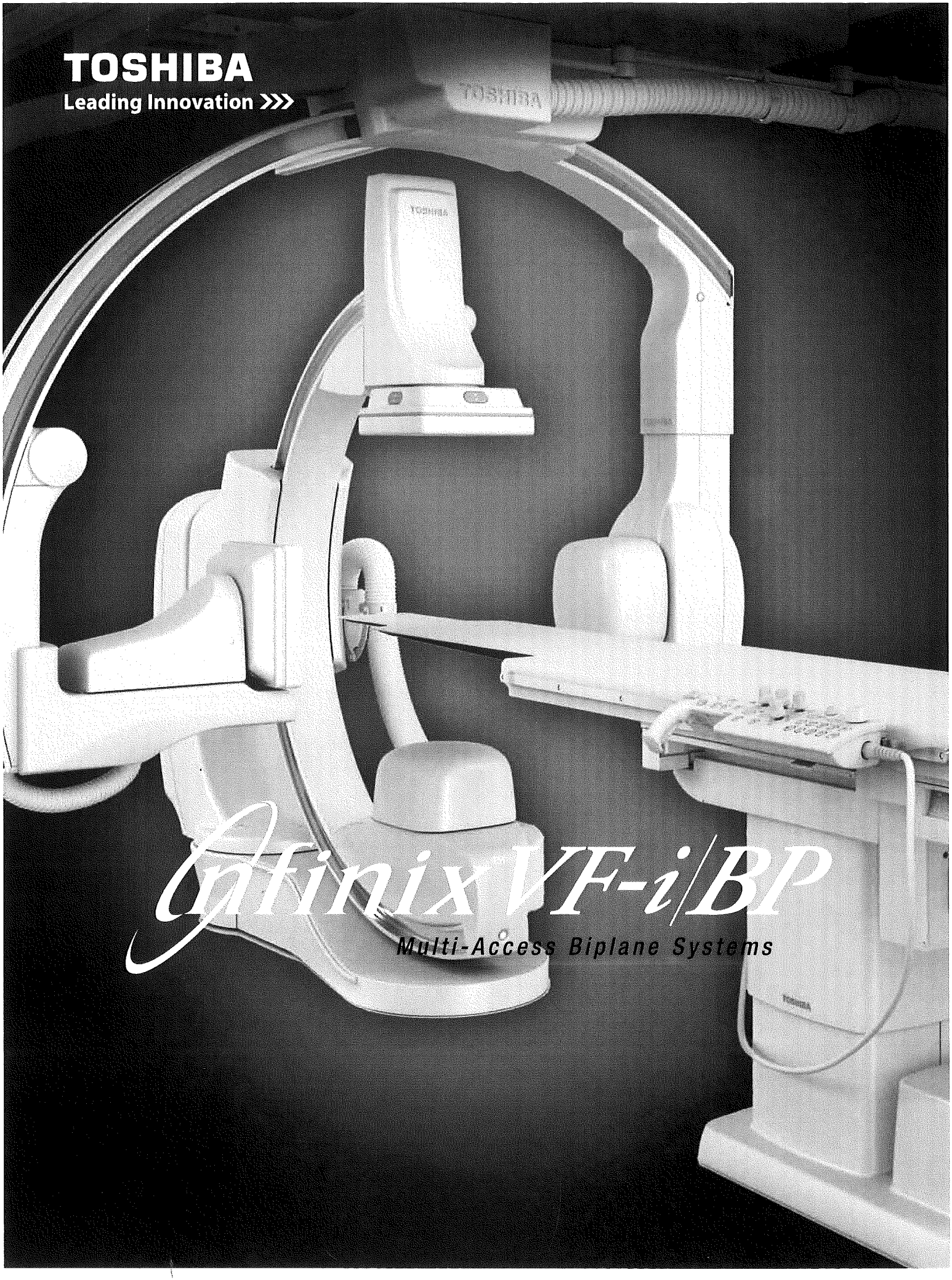
11. Force Majeure. Bayer will not be responsible for delays or non-performance directly or indirectly caused by any acts of God, fire, explosion, flood, war, accident, action by governmental authority, inability to procure supplies and raw materials, delays in transportation, work stoppage, court order, and other causes beyond Bayer's reasonable control.

12. Compliance With Laws/Export. In addition to any rights and remedies specifically identified here in this Quote, Bayer shall have all rights and remedies conferred by law. Bayer shall not be required to perform its obligations under this Quote if you have defaulted (e.g. failed to pay) under this Quote or any other contract involving Bayer. This Agreement shall be construed in accordance with the laws of the Commonwealth of Pennsylvania, United States of America. You warrant that you are and will remain in compliance with all export and reexport requirements, laws and regulations of the United States of America and any other applicable export and reexport laws and regulations.

13. HIPAA. Bayer represents that it is not a Business Associate as defined in the Health Insurance Portability and Accountability Act ("HIPAA").The functions Bayer is required to perform hereunder do not require the use or disclosure of Protected Health Information ("PHI"). To the extent any disclosure of PHI does occur, it is incidental and covered under the incidental disclosure rule found in 45 CFR 164.502(a)(1). In addition, to the extent any such incidental disclosure does occur, Bayer agrees to keep all such information confidential.

Please reference the quote number on your PO and fax to 412-406-0952

TOSHIBA
Leading Innovation



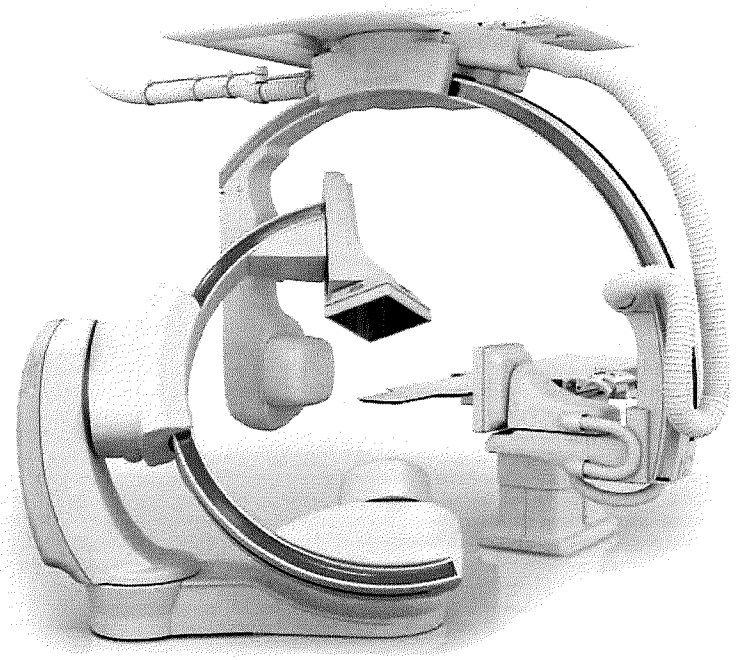
Infinix VF-i/BP

Multi-Access Biplane Systems

Advanced technologies deliver

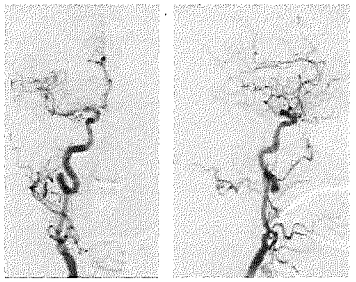
optimized biplane imaging

Designed in concert with leading physicians, the Infinix VF-i/BP with two 12"x12" flat panel detectors, or a 12"x16" and 12"x12" flat panel detector combination, provides advanced, versatile patient access and coverage to meet the demands of today's multi-discipline imaging environments. The system's Advanced Image Processing (AIP) and intuitive graphical interface deliver optimum image quality, time-saving ease of use and improved workflow. Ideal for diagnostic, interventional and hybrid procedures, the Infinix VF-i/BP provides unparalleled biplane imaging due to the revolutionary five-axis C-arm.



High-resolution interventional images

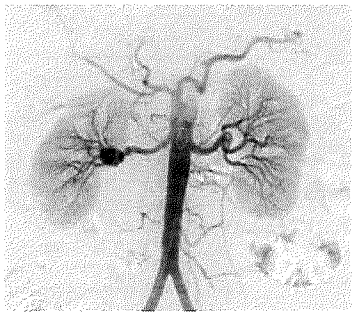
- The FPD provides distortion free images with uniform brightness
- New generation filtration and image processing reduces noise with high spatial resolution and less lag. The new software and components enhance high-definition images of small devices and structures
- Selectable fluoroscopy frame rates of 1, 2, 3, 5, 7.5, 10, 15, 20 and 30 fps single plane and 1, 2, 3, 5, 7.5 , 20 and 15 fps biplane allow optimization of dose reduction and image quality
- The sophisticated processing power and unique rotating detector provide comprehensive imaging from head to toe



AP projection right carotid (left).
Lateral projection right carotid (right).

Maximized room utilization

- Uniquely designed floor and ceiling mounted positioner are combined to enhance patient access, coverage and increase physician comfort
- Increased throughput is achieved through multitasking processor
- The robust table weight capacity readily accommodates heavier patients
- Intuitive tableside controls provide rapid access to all system functions
- A wide complement of DICOM capabilities are standard

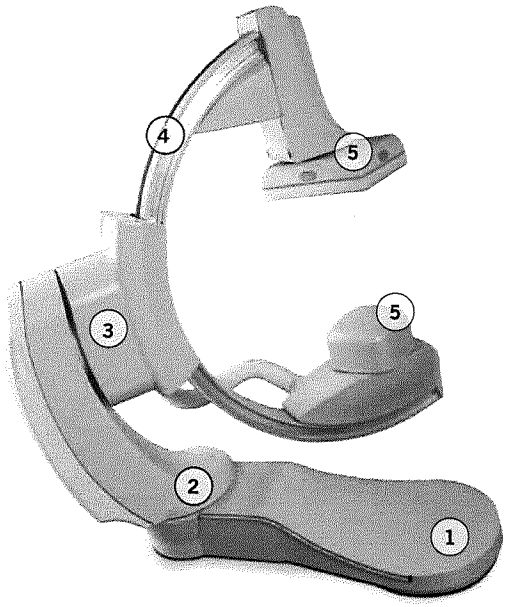


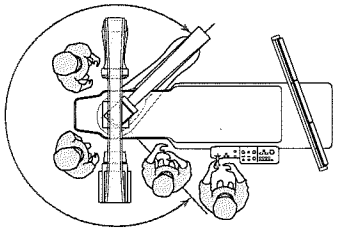
View of abdominal aortic angiogram including kidneys and proximal iliac arteries demonstrates the expanded cardiovascular coverage over conventional sized cardiac flat panel detectors.

Unique positioning

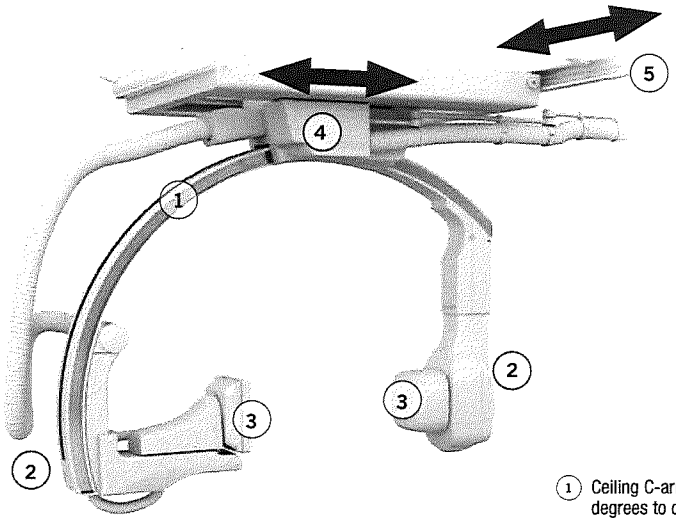
for quick access to all anatomy

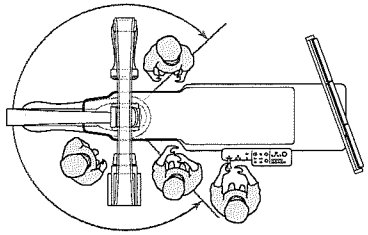
Designed with input from leading clinicians, the Infinix VF-i/BP systems take full advantage of the examination room space and ensure the utmost in clinical teamwork and patient care. The compact footprint and unique movements of the five-axis floor and multi-axis ceiling C-arm provide unprecedented clinical coverage and expand overall room efficiency and utilization.





1. Uniquely designed low profile base plate provides 270 degree rotation around the patient.
2. Pivoting column aids in providing excellent transverse and longitudinal coverage.
3. Flexible C-arm rotation allows for either cranial caudal or RAO/LAO positioning.
4. C-arm slide provides either cranial caudal or RAO/LAO positioning.
5. Automatic or manual synchronized rotating collimator and flat panel detector continuously maintain a heads up image display during compound angles.

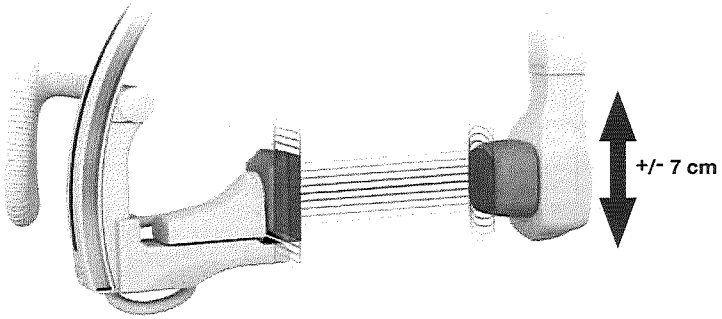




1. Ceiling C-arm design can pivot 180 degrees to change direction of X-ray beam and image detector, providing right and left lateral projections.
2. Variable iso-center provides the ability to simultaneously move the X-ray tube and flat panel detector in a vertical up/down position, saving time and repositioning of the patient or other system components.
3. Synchronized rotating collimator and flat panel detector continuously maintain a heads up image display during compound angles.
4. Unique bridge design provides over three feet of lateral travel, a clinical benefit to optimize part to image distance (PID), which is beneficial to manage geometric magnification.
5. Longitudinal movement provides ample anatomical coverage.

Quick and easy execution
of cardiovascular exams

Infinix-i Biplane systems possess superior design mechanics. The combination of C-arm motions, table ergonomics and tableside control add convenience and enhance procedure efficiency. With easy vertical positioning of the lateral C-arm from tableside, clinicians can independently move the lateral C-arm to obtain better views without repositioning the table or patient. The ability to limit these movements and optimize flat panel detector positioning can be extremely important during complex interventional exams and aid in the comfort of the clinical team.



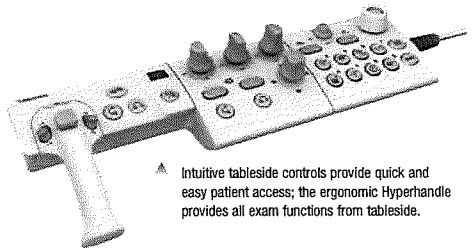
Clinicans will truly appreciate the flexible positioning during complex cases without moving the patient:

- Multi-directional C-arm positioning, including unique lateral variable iso-center
- Side to side FPD movement can reduce geometric magnification
- Patient stability, once ancillary equipment/devices are attached to the patient, can remain intact and undisturbed
- Keep the patient in a stable position, help maintain intracranial pressure and proper fluid flow during neuro interventional procedures

Expanded coverage with efficient tableside control

The ergonomic and tactile tableside control provides rapid and accurate anatomical positioning. Easily position the low profile FPDs to expand the traditional field of view and cardiovascular coverage.

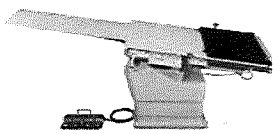
- At tableside, conveniently control the digital processor magnification/dose modes and positioning of the C-arm
- Auto-positioning programs rapidly setup/position the FPD over the desired anatomy area of interest
- Create pre-programmed routines to sequentially navigate through angles and positions for efficient image collection during cardiac and vascular procedures



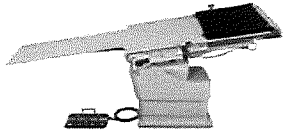
Intuitive tableside controls provide quick and easy patient access; the ergonomic Hyperhandle provides all exam functions from tableside.

Table options provide additional procedure freedom

Infinix-i has different tables designed for heavy patients, equipped with Stepping-DSA for high patient throughput and to expand clinical utilization. The tilt cradle table provides industry leading specifications for head to toe tilt and side to side cradle; this reduces the need to move the patient, can increase the imaging angles and dramatically increases the comfort of the physician. These features enable the handling of complex and demanding cases, including surgical procedures.



CAT-880B Table positioned in reserve Trendelenburg/cradle right position.

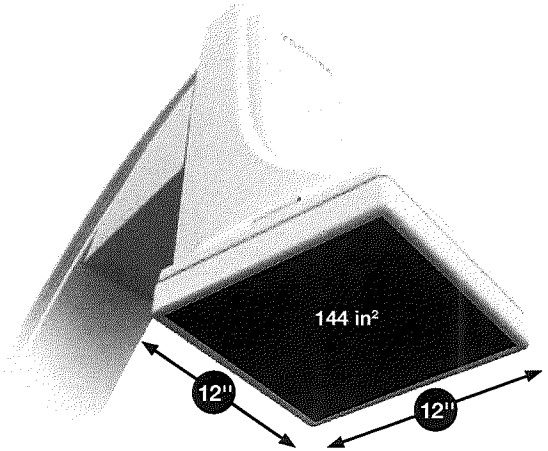


CAT-880B Table positioned in Trendelenburg/cradle right position.

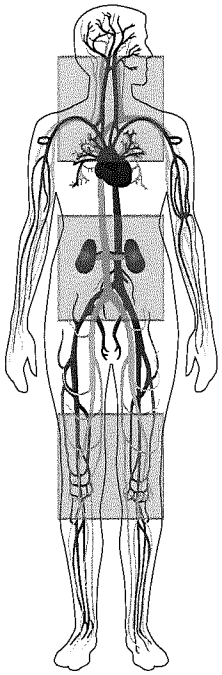
Flat Panel Detector design

optimizes biplane imaging

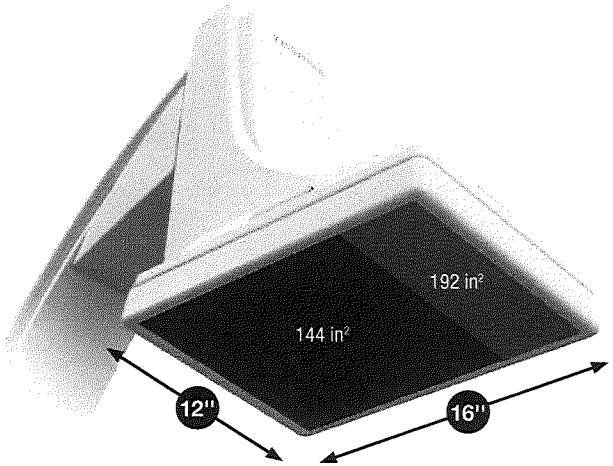
Either dual 12"x12" FPDs or the combination of one 12"x12" and one 12"x16" FPD can provide the ideal mix of anatomical coverage. The compact housing design mounted on the agile C-arms optimize angles and source to image distance (SID), regardless of clinical disciplines. Select the system based on the clinical practice and mix of neuro, vascular and non-vascular interventions or cardiac related procedures.



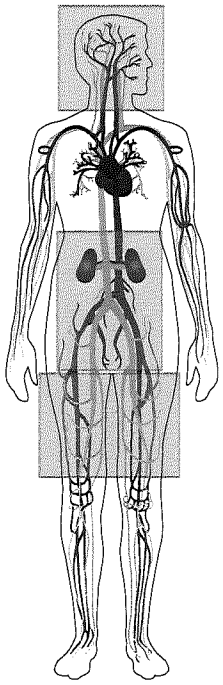
Equipped with two 12"x12" FPDs, the compact design allows for steep angles, opens up the working area in the sterile field and provides two times more coverage than the small sized FPD.



Two Infinix-i 12"x12" FPDs provide unique coverage for neuro, and accommodates non-vascular, vascular and cardiac procedures.



Equipped with one 12"x16" FPD and one 12"x12" FPD, this system provides excellent head-to-toe anatomical coverage.



This combination of mid and large size Flat Panel Detectors provides excellent coverage for neuro, non-vascular and vascular procedures.

Superior imaging capabilities
for all anatomical regions

The Infinix VF-i/BP is designed for low-noise, high-resolution fluoroscopic imaging.

The combination of flat panel detectors with four fields of view, and next generation

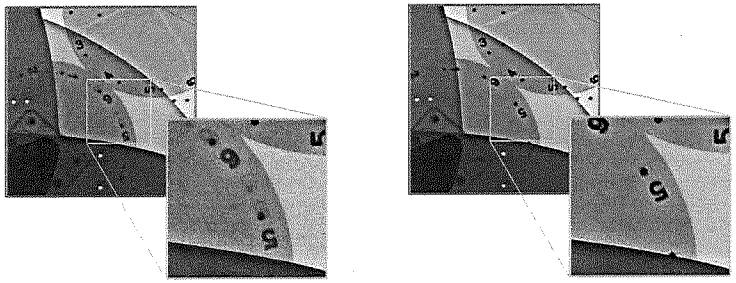
Advanced Image Processing (AIP) optimizes the anatomical views during fluorographic or

fluoroscopic imaging for a wide range of cardiovascular exams.

Advanced Image Processing: Uniform display and zero lag

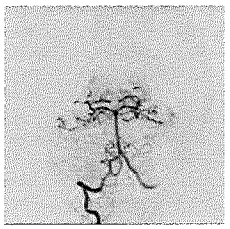
- Proprietary hardware and software improves imaging confidence by increasing resolution
- Provides a high resolution uniform image, critical for navigation during diagnostic and interventional procedures
- Noise and halation suppression technology increases image contrast and detail to help visualize small vessels and intricate devices
- Technology designed to virtually eliminate lag provides a more accurate real time image display

Without AIP **With AIP**



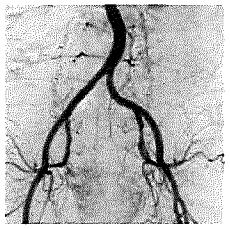
The spinning wheel shown above is a recognized device to dynamically measure contrast, resolution, overall noise, halation and lag. Notice the sharp edge detail when AIP is employed and how the blurring of the numbers in the non-AIP image is eliminated with AIP, indicating no lag.

AIP technology is advantageous for imaging from head to toe



PA view of right vertebral artery.

Aortic arch injection showing aorta and the great vessels.

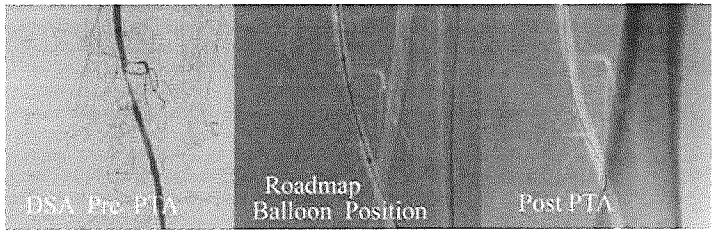


Bilateral illiac artery angiogram.

Roadmapping Technology

"Guide View" provides a superimposed roadmap over live fluoroscopy images to facilitate accurate device placement within a targeted vascular anatomy. Users will appreciate the real time extensive dynamic range of grey scale to clearly visualize vessels and devices.

- Unique technology enhances visualization (in black or white) of the catheters or guide wires

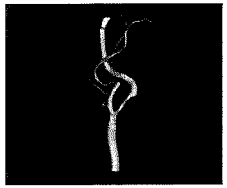


Infinix-i systems are equipped with a variety of interventional roadmapping tools to assist during guidance and aids device deployment. These roadmapping tools include:

- Carbon Dioxide (CO2) contrast roadmapping is available as an alternative to iodinated contrast
- Peak pixel roadmapping provides a summated view of the opacified vessels
- The Add Roadmapping feature provides a subtracted background to improve visualization of embolic agents within the target vessel understudy

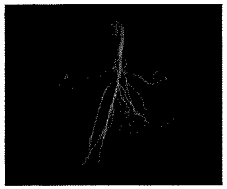
Enhance treatment planning
with 3D Technologies

Infinix-i system's 3D angiography improves patient care by providing high resolution, three dimensional images to guide effective treatment planning. Clinicians can make an accurate diagnosis and choose the most beneficial therapy, surgery or interventional procedure. Infinix-i 3D angiography systems deliver high quality images in either a DA (digital angiography) or DSA (digital subtracted angiography) format for diagnostic and interventional procedures. These systems feature high-speed C-arm rotation with high frame rate acquisition, rapid image reconstruction and a user-friendly multi-modality workstation.



3D digital subtraction angiography – carotid artery.

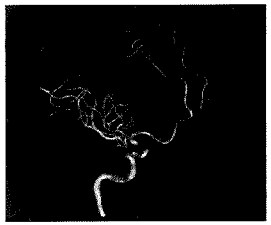
3D digital angiography – stented aorta.



3D digital subtraction angiography – superior mesenteric artery.

Device and Bone Fusion

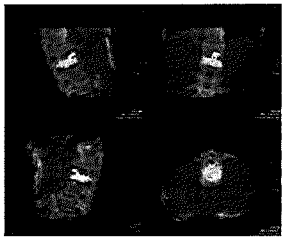
High speed acquisition generates conventional 3D reconstructions with unique display capabilities. Toshiba's patented Device Fusion (below left) provides the ability to clearly differentiate the devices from vessels. Bone Fusion (below right) provides simultaneous display of vessels and bony landmarks.



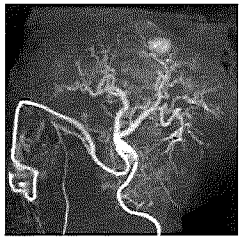
Low Contrast Imaging: Clear delineation of soft tissue targets.

During a procedure, when time is of the essence and better visualization of soft tissue density would be advantageous, Low Contrast Imaging (LCI) delivers CT-like images in the angiography suite. Infinix-i technology creates a Multi-Planar Reconstruction or MPR. This post-processing technique reconstructs the 2D images into coronal, sagittal, and axial anatomical planes. This allows the clinician to display the target anatomy in a different plane from which it was acquired, thus optimizing overall visualization.

LCI neuro stent.



LCI Vertebroplasty.



LCI maximum intensity projection of hepatic arteries.

The combination of proprietary hardware and software enable clinicians to select from three different acquisition modes. Depending on clinical requirements, different levels of acquisition can be selected that will vary C-arm sweep, reconstruction time and image detail.

LCI technology provides a useful tableside diagnostic tool, and provides assistance with the following:

- Enhances overall visualization of both soft tissue (tumors and stroke) and bone (vertebroplasty and calcifications)
- Provides a positioning aid for needle guided therapy
- Provides intra procedure acquisition of clinical information to further evaluate patient condition and aid in continued treatment planning

Experience the advantage
of real-time precision 3D Roadmapping

Improved alignment leads to better clinical accuracy

To further enhance treatment planning and guidance, the Infinix-i offers Volume Navigation, an easy to use 3D roadmapping tool that links every Infinix-i system movement with the fusion 3D and fluoroscopic display. Mechanical coordinates are tracked by computer to maintain precise alignment of 3D Fluoroscopic fusion display, this tracking and improved alignment will require less manipulation of the system providing more focus on the procedure and patient. Overall, this technology offers clinicians greater confidence in image and system alignment and in interpreting complex structures leading to benefits such as reduction in procedure time, dose and contrast use.

Volume Navigation displays the deployment of coils during a neuro intervention with exceptional clarity and precision.

First coil begins to enter the aneurysm from the micro-catheter.

First coil about half-way into the aneurysm. A section of platinum coil can be seen in the parent vessel.

First coil fully deployed into the aneurysm.

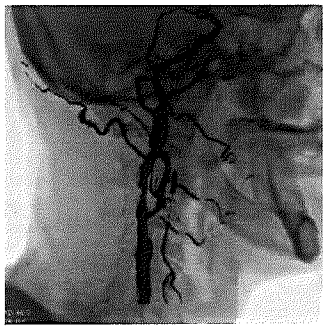
Optiminzing the display during interventions

Clinicians will appreciate the precise real time fluoroscopy overlayed on 3D images to facilitate more accurate device placement and the ability to change display modes in real time as shown below.

The Infinix-i Volume Navigation incorporates innovative leading specifications to provide features that optimize image display, system control and clinical workfow at every stage of the procedure:

- Complete mechanical linkage of C-arm and table to 3D overlay provides precise accuracy of Volume Navigation
- Ability to display 2D and 3D roadmap simultaneously
- Display Mode Selection
  - Volume render (Solid vessel view)
  - Edge enhanced (Hollow vessel view)
- Transparency – allows user to manually adjust the view from opaque to transparent
- Device Enhancement – Unique wire enhancement algorithms enhance visualization of wires and devices

Adjustable display modes allow you to switch to greater clarity in real time.



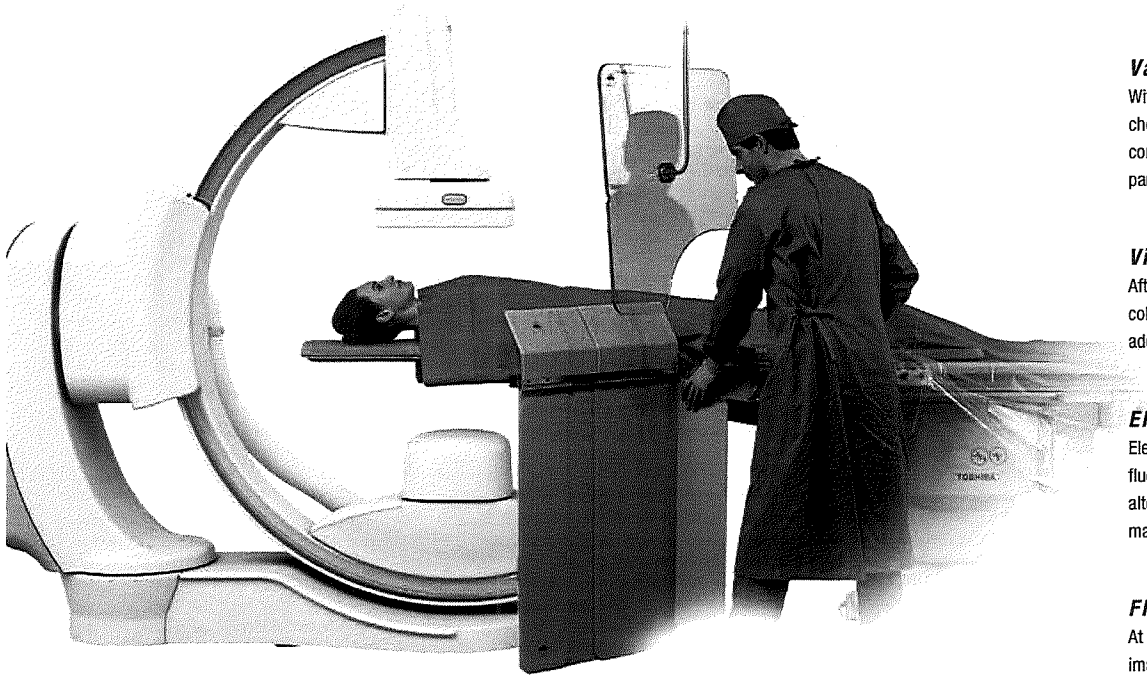
Volume Rendering display mode with vessel opacity high.

Edge Enhance Rendering display mode (hollow vessels).

Device Enhance Processing applied to this 3D roadmap, markedly improving visualization of stent delivery.

Dose-reduction technology

for the patient and staff



Comprehensive Dose Management

The Infinix-i system includes an assortment of sophisticated tools that limit the clinicians dose exposure and provide the ability to control dose output right at tableside. This enables the ability to optimize X-ray emissions and image quality.

Variable dose mode

With the touch of a button from tableside, the operator can choose from four pre-programmed fluoroscopy modes. Different combinations of grid pulse rates, dose level, and image processing parameters optimize various study protocols.

Virtual collimation

After initial fluoroscopy, virtual collimation uses software to simulate collimator positions. This lets operators adjust collimation without additional fluoroscopy, further reducing radiation dose.

Electronic zoom

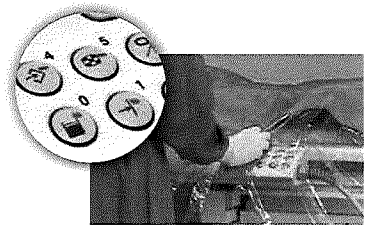
Electronic zoom digitally enlarges images in real time during fluoroscopy, without increasing dose. This provides a dose-saving alternative to using smaller fields of view on the detector for magnification purposes, which would increase the dose delivered.

Fluoroscopic acquisition

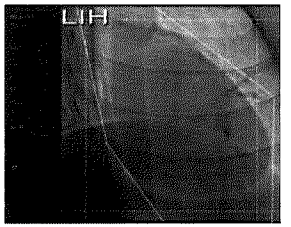
At tableside, operators can save and instantly review fluoroscopic images in two ways: prospectively record the next 90 seconds, or retrospectively archive the previous 10 seconds. Both methods can reduce the use of fluoroscopy, thereby reducing dose.

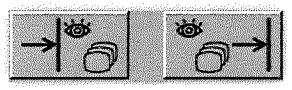
Dose control

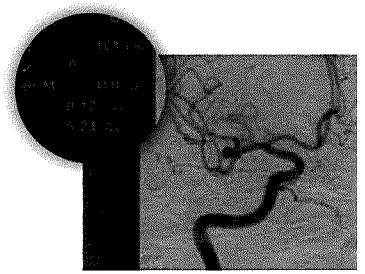
Radiation dose can be monitored in real time. The operator can observe dose levels on a digital display in the examination room.



Clinicians enjoy the added advantage of increased productivity and enhanced patient care with complete tableside control.



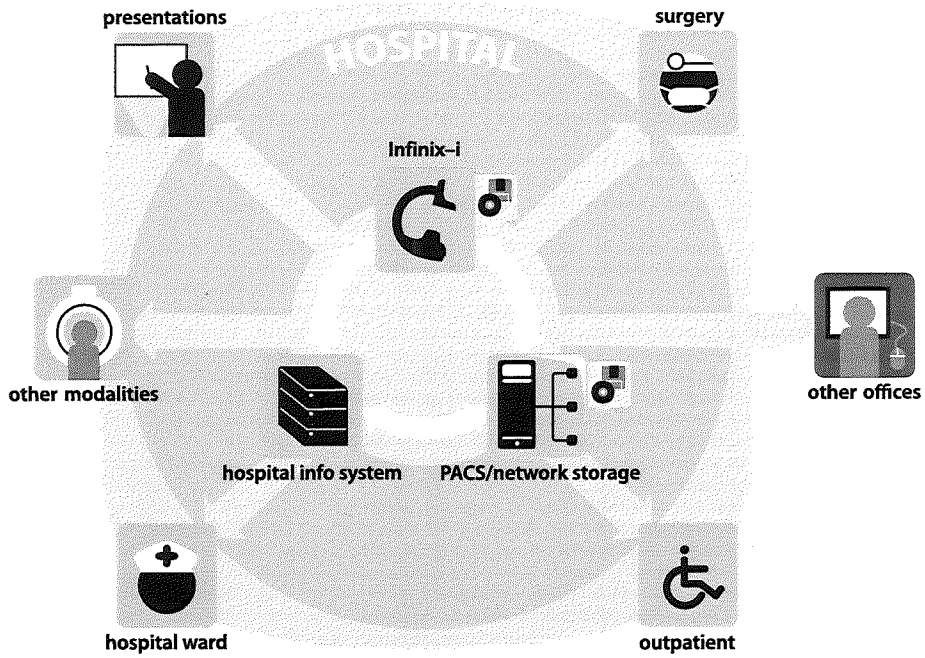




Access to patient information

with seamless network integration

The Infinix VF-i/BP comes standard with the six major DICOM Service Classes enabling efficient network integration. These DICOM features allow open access to patient information while reducing examination time and enhancing overall department workflow.



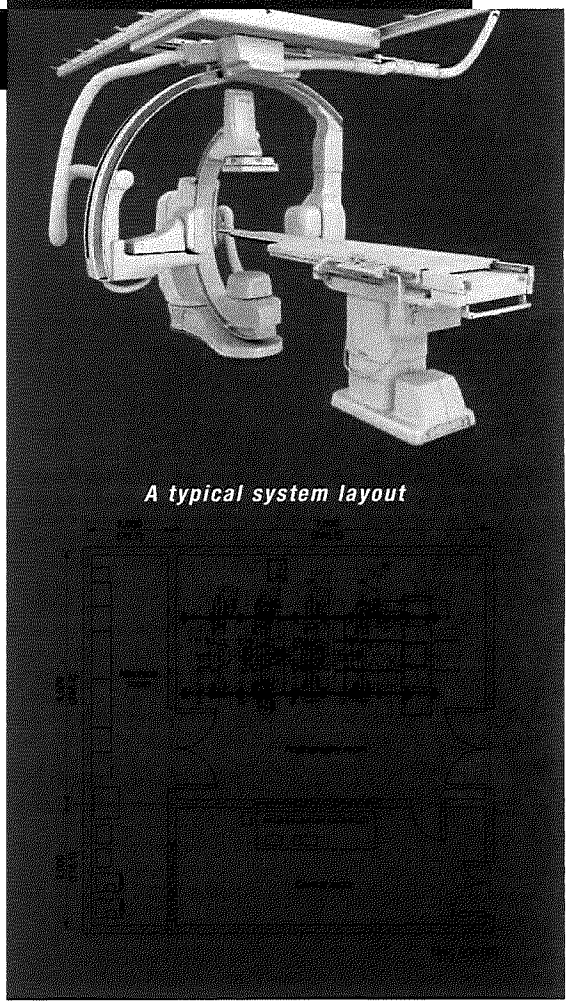
Infinix-i: Dynamic viewing and flexible network integration permit rapid export and retrieval of images. Open communications with HIS/RIS provide rapid transfer of patient information.

PACS/network storage: Provides online dynamic review of patient images. Storage and transfer of multi-modality images are handled at high speed.

Presentations: Viewed online via CD-R/DVD-RAM, images can be used for educational presentations or patient consultations.

DICOM CD-R/DVD+/-R: Serve as long-term and portable storage media for valuable image data.

Compact design for easy siting



A typical system layout

INNOVATION BY DESIGN

For more than 130 years, Toshiba has led the world in developing technology to improve the quality of life. This *Made for Life*™ commitment is reflected in our family of leading edge imaging systems for MRI, CT, ultrasound, cath labs and X-ray. From creating our first X-ray tube in 1915 to introducing the first dynamic volume CT scanner in 2007, Toshiba continues to build upon our legacy with technological innovation that improves patient care while providing lasting quality for a lifetime of value.

A Services Partner You Can Count On

Toshiba has the expertise and resources you need to manage the costs of healthcare without compromising its quality.

InnerVision® Plus
Remote system diagnostics to catch problems before they interrupt the delivery of care

InTouch Center™
Centralized, 24x7 applications and services support expertise

Technical Assistance
Highly trained engineers are ready to service your Toshiba equipment on site

InTouch Agreements
Services support contracts tailored to your needs

Parts Support
Delivering quality parts when and where you need them, 24x7, 365 days a year

Toshiba — A History of Leadership

- *1875* • Founding of Toshiba
- *1915* • First X-ray Tube
- *1989* • First Helical CT Scanner
- *1993* • First One-million-pixel CCD
- *1997* • First Open, Superconducting Magnet
- *2000* • First All-digital Multipurpose X-ray System
- *2003* • First 64-slice CT Scanner
- *2005* • First Compact Dual Plane Cath Lab with Flat Panel Detectors
- *2006* • First Five-axis C-arm Cath Lab
- *2007* • First Dynamic Volume CT Scanner
- *2009* • First Biplane 5-axis system with two 12"x12" FPDs
- *2009* • First Biplane system with a 12"x12" and 12" x16" FPD combination

Made for Life

TOSHIBA AMERICA MEDICAL SYSTEMS, INC.
2441 Michelle Drive, Tustin, CA 92780
(800) 421-1968

www.medical.toshiba.com

MIX
From responsible sources
FSC® C103996

Model number: MCAXR0233EB7

Attachment C

PROPOSED TOTAL CAPITAL COST OF PROJECT

Project name: CMC-Main IVR Room 4 Equipment Replacement

Provider/Company: Carolinas Healthcare System

A.	**Site Costs**			
(1)	Full purchase price of land			
	Acres	Price per Acre $		
(2)	Closing costs			
(3)	Site Inspection and Survey			
(4)	Legal fees and subsoil investigation			
(5)	Site Preparation Costs			
	Soil Borings			
	Clearing-Earthwork			
	Fine Grade for Slab			
	Roads-Paving			
	Concrete Sidewalks			
	Water and Sewer			
	Footing Excavation			
	Footing Backfill			
	Termite Treatment			
	Other (Specify)			
	Sub-Total Site Preparation Costs			
(6)	Other (Specify)			
(7)	**Sub-Total Site Costs**			$0
B.	**Construction Contract**			
(8)	Cost of Materials			
	General Requirements			
	Concrete/Masonary			
	Woods/Doors & Windows/Finishes			
	Thermal & Moisture Protection			
	Equipment/Specialty Items			
	Mechanical/Electrical			
	Other (Specify)			
	Sub-total Cost of Materials			
(9)	Cost of Labor			
(10)	Other (Specify)			
(11)	**Sub-Total Construction Contract**			$503,912
C.	**Miscellaneous Project Costs**			
(12)	Building Purchase			
(13)	Fixed Equipment Purchase/Lease			$1,643,963
(14)	Movable Equipment Purchase/Lease			
(15)	Furniture			
(16)	Landscaping			
(17)	Consultant Fees			
	Architect and Engineering Fees		$62,000	
	Legal Fees			
	Market Analysis			
	Other (Specify)		$15,245	
	Other (Abatement)			
	Sub-Total Consultant Fees			$77,245
(18)	Financing Costs (e.g., Bond, Loan, etc.)			
(19)	Interest During Construction			
(20)	Other (Contingency)			$166,880
(21)	**Sub-Total Miscellaneous**			$244,125
(22)	**Total Capital Cost of Project** (Sum A-C above)			$2,392,000

PROPOSED TOTAL CAPITAL COST OF PROJECT

Project Name: **CMC-Main IVR Room 4 Equipment Replacement**
Provider/Company: **Carolinas HealthCare System**

I certify that, to the best of my knowledge, the above construction related costs of the proposed project named above are complete and correct.

(Signature of Licensed Architect or Engineer)

PARTS CONSULTING GROUP, INC.

130 Cleveland Ave. W
Warren, OH 44483
Phone 330-469-9783
Fax 330-469-9784

March 14, 2014

Derek Fleming
Carolinas Health Care System Carolinas Medical Center
1000 Blythe Blvd
Charlotte, NC 28203

Dear Derek:

This letter is in reference to the removal of the Siemens Axiom Artis BA Bi-Plane Room.

Parts Consulting Group, Inc. will de-install and remove the equipment from Carolinas Medical Center Site #400-118948 S/N 0101S01

Once the equipment is removed, it will not be re-installed or utilized in the State of North Carolina.

Thank you for your continued support and if I can help you in any way, please give me a call.

Best Regards,

Rick Bricker

Rick Bricker
Parts Consulting Group, Inc.
130 Cleveland Ave W
Warren, Ohio 44483
Toll Free 888-724-1726
Fax 330-469-9784
www.partscg.com

STATE OF NORTH CAROLINA

Department of Health and Human Services
Division of Facility Services

CERTIFICATE OF NEED
for
Project Identification Number F-6384-01
FID #944734

ISSUED TO: **Charlotte-Mecklenburg Hospital Authority**
1000 Blythe Boulevard
Charlotte, NC 28203

Pursuant to N.C. Gen. Stat. § 131E-175, et. seq., the North Carolina Department of Health and Human Services hereby authorizes the person or persons named above (the "certificate holder") to develop the certificate of need project identified above. The certificate holder shall develop the project in a manner consistent with the representations in the project application and with the conditions contained herein and shall make good faith efforts to meet the timetable contained herein. The certificate holder shall not exceed the maximum capital expenditure amount specified herein during the development of this project, except as provided by N.C. Gen. Stat. § 131E-176(16)e. The certificate holder shall not transfer or assign this certificate to any other person except as provided in N.C. Gen. Stat. § 131E-189(c). This certificate is valid only for the scope, physical location, and person(s) described herein. The Department may withdraw this certificate pursuant to N.C. Gen. Stat. § 131E-189 for any of the reasons provided in that law.

SCOPE: **The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall acquire no more than one additional unit of fixed cardiac catheterization equipment to establish a fourth special procedures room to be used exclusively for angiography, myelography and pain management procedures/Mecklenburg County**

CONDITIONS: **See Reverse Side**

PHYSICAL LOCATION: **Carolinas Medical Center**
1000 Blythe Boulevard
Charlotte, NC 28203

MAXIMUM CAPITAL EXPENDITURE: **$2,575,025**

TIMETABLE: **See Reverse Side**

FIRST PROGRESS REPORT DUE: July 1, 2002

This certificate is effective as of the 14th day of September, 2001.

Lee B. Hoffman, CPSM
Chief, Certificate of Need Section
Division of Facility Services

CONDITIONS

1. The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall materially comply with all representations made in its certificate of need application.

2. Prior to issuance of the certificate of need, The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall provide the Certificate of Need Section with the total number and composition of the special procedures teams.

3. Prior to issuance of the certificate of need, The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall provide the Certificate of Need Section with a written description of the selection criteria for angiography, myelography and pain management patients.

4. Prior to issuance of the certificate of need, The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall provide the Certificate of Need Section with documentation showing that the proposed special procedures room will be designed and developed based on the American College of Radiology standards for angiography services.

5. The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall not perform any cardiac catheterization procedures, as defined in 10 NCAC 3R .1613(5), with the additional cardiac catheterization equipment in the dedicated special procedures room.

6. The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall not report the additional cardiac catheterization equipment in the dedicated special procedures room as cardiac catheterization equipment or report the procedures performed on this equipment as cardiac catheterization procedures on the Hospital License Renewal Application form or any other document or inventory.

7. The Charlotte-Mecklenburg Hospital Authority d/b/a Carolinas Medical Center shall acknowledge acceptance and compliance with all conditions stated herein to the Certificate of Need Section in writing prior to issuance of the certificate of need.

A letter acknowledging acceptance and compliance with all conditions stated in the conditional approval letter was received by the Certificate of Need Section on September 17, 2001.

TIMETABLE

Financing	
Obtaining funds necessary to undertake project	March 15, 2002
Design	
Completion of preliminary drawings	April 26, 2002
Completion of final drawings and specifications	May 24, 2002
Approval of final drawings and specifications by Construction Section, DFS	June 21, 2002
Construction	
Approval of Site by Construction Section, DFS	July 5, 2002
Contract Award	July 19, 2002
25% completion of construction	August 12, 2002
50% completion of construction	September 6, 2002
75% completion of construction	September 30, 2002
Completion of construction	October 25, 2002
Occupancy/offering of service(s)	January 1, 2003
Acquisition of Medical Equipment	
Ordering equipment	April 26, 2002
Arrival of equipment	July 25, 2002
Operation of equipment	January 1, 2003

Attachment D

EQUIPMENT COMPARISON

	Existing Equipment	Replacement Equipment
Type of Equipment (List each component)	Bi-Plane Interventional Unit	Bi-Plane Interventional Unit
Manufacturer of Equipment	Siemens Artis BA	Toshiba Infinix VF-i/BP
Tesla Rating for MRIs	N/A	N/A
Model Number		Not available until install
Serial Number	118948	Not available until install
Provider's Method of Identifying Equipment	CHS Asset # / Serial #	CHS Asset # / Serial #
Specify if Mobile or Fixed	Fixed	Fixed
Mobile Trailer Serial Number/VIN #	N/A	N/A
Mobile Tractor Serial Number/VIN #	N/A	N/A
Date of Acquisition of Each Component	2002	2014
Does Provider Hold Title to Equipment or Have a Capital Lease?	Title	Title
Specify if Equipment Was/Is New or Used When Acquired	New	New
Total Capital Cost of Project (Including Construction, etc.) <Use Attached Form>		$2,392,000
Total Cost of Equipment	$1,759,289	$1,643,963
Fair Market Value of Equipment		$1,643,963
Net Purchase Price of Equipment		$1,643,963
Locations Where Operated	CMC IR Room #4	CMC IR Room #4
Number Days in Use/To Be Used in N.C. per Year	260 plus weekends and emergencies	260 plus weekends and emergencies
Percent of Change in Patient Charges (by procedure)	None	None
Percent of Change in Per Procedure Operating Expenses (by procedure)	None	None
Type of Procedures Currently Performed on Existing Equipment	Full gamut of IR Procedures	N/A
Type of Procedures New Equipment is Capable of Performing	N/A	Full gamut of IR Procedures

Unit	Asset ID	Dept	Category	Descr	Cost	Acq Date	Tag Number	Parent ID	Serial ID
01	000000039291	663000	BFIX	ELECTRICAL WORK	10,959.61	3/1/1994	94000868		
01	000000042068	663000	BFIX	PLUMBING	64,000.00	1/1/1997	97003025		
01	000000042069	663000	BFIX	GLASS	1,500.00	1/1/1997	97003024		
01	000000042073	663000	BFIX	WALLCOVERING	12,000.00	1/1/1997	97003021		
01	000000051333	663000	BFIX	HVAC	7,800.00	1/1/1997	97003026		
01	000000051334	663000	BFIX	ELECTRICAL	144,312.35	1/1/1997	97003028		
01	000000053616	663000	BUILD	INTERIOR FINISHES	450.20	12/31/2000		0087861	
01	000000053618	663000	EQUIP	CHAIRS 010-013	426.88	12/31/2000	389010	0087861	
01	000000053619	663000	EQUIP	CHAIR	328.44	12/31/2000	389014	0087861	
01	000000053620	663000	EQUIP	FILES 015-017	1,117.00	12/31/2000	389015	0087861	
01	000000053621	663000	EQUIP	TABLE TP & BASE 559-60	375.00	12/31/2000	394559	0087861	
01	000000053622	663000	EQUIP	BOOKCASE	506.00	12/31/2000	394561	0087861	
01	000000053623	663000	EQUIP	BOOKCASE	298.00	12/31/2000	394563	0087861	
01	000000053624	663000	EQUIP	DESK & DWR 562, 558	749.00	12/31/2000	394562	0087861	
01	000000056704	663000	EQUIP	LOCKERS DOUBLED TIER	1,214.78	5/14/2003			
01	000000056905	663000	BUILD	building TBW562	339,974.69	6/26/2003		2001009	
01	000000056906	663000	BFIX	bldg fixtures TBW562	166,451.24	6/26/2003		2001009	
01	000000056907	663000	EQUIP	SIEMENS angiographic system	1,759,289.00	6/26/2003		2001009	0161S01
01	000000057988	663000	BUILD	DATA OUTLETS	740.09	11/30/2003			
01	000000059265	663000	BUILD	BUILDING	15,942.17	10/12/2004		2040590	
01	000000059266	663000	BFIX	BLDG FIX-RAD/MAM SPACE RENO	14,329.70	10/12/2004		2040590	
01	000000059268	663000	EQUIP	ADJUSTABLE SLIDER	930.12	10/12/2004		2040590	
01	000000059269	663000	EQUIP	AVENUE SIDE CHAIRS	1,893.08	10/12/2004		2040590	
01	000000059270	663000	EQUIP	PICTURES	1,112.50	10/12/2004		2040590	
01	000000059449	663000	EQUIP	CHAIR OPNL PNEU HGT MID BK	1,309.65	9/30/2004	468554-556		
01	000000059810	663000	BFIX	BUILDING FIXTURES	731.23	12/29/2004		2078921	
01	000000061208	663000	EQUIP	CHAIR OPNL PNEU HGT HI BK	504.60	9/29/2005			
01	000000063579	661800	EQUIP	LAURELWOOD BARIATRIC CHAIR	966.24	11/29/2006			
01	000000063791	661800	BFIX	RES MMP-IS ROOM-BF	10,513.56	12/31/2006		2106347	
01	000000064011	663000	EQUIP	LOGIQ 5 ECG CABLE,4D KIT	13,670.00	12/1/2006			
01	000000065339	663000	BUILD	CMC - REPL WALL FABRIC/ RAD F	2,870.45	8/31/2007		2157652	
01	000000065340	663000	BUILD	CMC-AESTH/RADIOLOGY SPEC AREA	2,393.84	8/31/2007		2158049	
01	000000065674	661800	EQUIP	MRI PHANTOM|1 EA	730.00	11/20/2007			
01	000000069162	663000	BFIX	CABINETRY/CASHWORK/FLUSH PULLS	8,570.93	12/31/2008		2210104	
01	000000069455	663000	EQUIP	ARTIS ZEE BIPLANE ANGIOGRAPHY	1,895,851.39	12/31/2008		2210104	05150
01	000000069468	661800	EQUIP	SIEMENS MAGNETOM VERIO W/TIM	1,620,561.30	1/29/2009		2210100	
01	000000069856	661800	EQUIP	X-RITE DENSITOMETER BLACK & WH	1,575.00	12/31/2007			
01	000000070025	663000	BUILD	4th Floor Angiography	74,027.63	5/31/2009		2210104	
01	000000070079	661800	EQUIP	MRI COPPER SHIELDING SYSTEM	70,884.42	5/31/2009		2210100	
01	000000070085	661800	BFIX	CABINETRY	5,076.75	5/31/2009		2210100	
01	000000070090	661800	BFIX	WALL COVERING	2,983.24	5/31/2009		2210100	
01	000000070095	661800	BUILD	BUILDING UPFIT FOR MRI INSTALL	408,745.89	5/31/2009		2210100	
01	000000070691	663000	EQUIP	FAX MACHINE	2,978.56	10/31/2009		2302886	
01	000000077649	663000	EQUIP	115995 PC NORTEL PHONE	1,411.80	1/31/2013			
01	000000078834	663000	EQUIP	MEDSTONE ELITE PATIENT TABLE	11,198.00	8/15/2013			

2013 Procedures by Month - CMC IR Suite #4

January	155
February	143
March	159
April	153
May	168
June	153
July	168
August	160
September	145
October	164
November	131
December	141
Total 2013	**1840**
January	412*

*Beginning in January 2014, procedure counting methodology was changed.