

WHSE/PAD B64035
V.A. Medical Center
3801 Miranda Ave
Building 50
Palo Alto, CA 94304

PRESENTED TO:

PO# 640-B64035

VA PALO ALTO
3801 MIRANDA AVE
PALO ALTO, 94304. CA

**INFINIX-I FOR
INTERVENTIONAL
NEURORADIOLOGY**

INFINIX-I BIPLANE 12"X16" FPD
SYSTEM WITH CAT-880B HYBRID
TABLE

INFINIX-I BIPLANE 12"X16" FPD
SYSTEM WITH CAT-880B HYBRID
TABLE

SINGLE ARM BOARD

OVER HEAD HANDGRIPS /
ARMREST FOR CAT-880B

CABINET SIDE COVER

CABINET CORNER COVER

21" COLOR MONITOR KIT

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LCD FLAT-PANEL COLOR MONITOR
21

SUPINE POSITION SCOOP ARM
SUPPORT

ANTI-FATIGUE FLOOR MAT

MAVIG TABLE MOUNTED
RADIATION SHIELD

INFINIX ANGIO WORKSTATION
(AWS) WITHOUT 3-D ANGIO
SOFTWARE

INFINIX ANGIO WORKSTATION
(AWS) WITHOUT 3-D ANGIO
SOFTWARE

LCD FLAT-PANEL COLOR MONITOR
21 (Qty 2)

IMAGE CONNECTION MODULE FOR
LARGE LCD MONITORS

MULTIPURPOSE TABLESIDE
CONTROL KEYBOARD AND MOUSE
EXTENSION KIT FOR AWS, AND UP
TO THREE OTHER PORTS

KEYBOARD AND MOUSE TABLESIDE
MOUNTING DEVICE

DOSE TRACKING SYSTEM

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INTERVENTIONAL DASHBOARD
TWO 30" MONITOR SOLUTION

LARGE 58" LCD MONITOR - MEDICAL
GRADE

19" COLOR MONITOR (Qty 2)

MONITOR MOUNT BRACKET
ASSEMBLY (Qty 2)

INSTALLATION CABLES FOR LARGE
LCD MONITOR

CABINET FOR LARGE LCD COLOR
DISPLAY MONITOR

TRIPP LITE WALL MOUNT CABINET

PROTECTOR FOR LARGE LCD
MONITOR

UNIVERSAL CONNECTION MODULE
FOR LARGE LCD MONITOR

DVI EXTENDER AND RECEIVER
CABLE

IMAGE CONNECTION MODULE FOR
LARGE LCD MONITORS (Qty 5)

IMAGE CONNECTION MODULE FOR
LARGE LCD MONITORS (Qty 25)

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LARGE LCD MONITOR SUSPENSION
FOR CAS RAILS FOR BIPLANE,
CEILING AND DUAL PLANE
SYSTEMS

IMAGE CONNECTION MODULE FOR
LARGE LCD MONITORS

UNIVERSAL CONNECTION MODULE
FOR LARGE LCD MONITOR

DVI EXTENDER AND RECEIVER
CABLE

HEAD-END ACCESSORY RAIL FOR
CAT-880B

HEAD-END DRAPE HOLDER FOR
CAT-880B

OVER HEAD HANDGRIPS /
ARMREST FOR CAT-880B

WIRELESS FOOTSWITCH FOR CAT-
850B BIPLANE

MAVIG 4.0 M CEILING TRACK FOR
RADIATION SHIELDS, LIGHTS AND
MONITORS

MAVIG PORTEGRA2 (95/90 CM)
EXTENSION SPRING ARM WITH
CENTER MOUNTED CONTOUR CUT-
OUT SHIELD (61X76 CM)

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MAVIG PORTEGRA2 (75/90 CM)
EXTENSION SPRING ARM WITH
M130F LED LAMP

MEDRAD / BAYER MARK 7
ARTERION INJECTOR (TABLE
MOUNT)

MEDRAD / BAYER MARK 7
ARTERION FREE STANDING
PEDESTAL

2D ROTATIONAL SPIN
ANGIOGRAPHY

SPOT FLUORO

BASE 3D ACQUISITION SOFTWARE
(ALSO REQUIRES VITREA VL 3D
PACKAGE)

ADDITIONAL ON-SITE
APPLICATIONS TRAINING - 32
HOURS

VITREA WORKSTATION ANGIO VL3D
PACKAGE, INCLUDES 3-D ANGIO
AND GENERAL VESSEL PROBE, POST
PROCESSING SOFTWARE,
HARDWARE, AND EDUCATION
TRAINING UNITS

LCD FLAT-PANEL COLOR MONITOR

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VITREA WORKSTATION, HARDWARE

VITREA ANGIO XA PACKAGE

VITAL SERVICES, VITAL U
EDUCATION UNITS (Qty 12)

VITAL SERVICES, 1ST LEVEL
SUPPORT, VITREAWORKSTATION

DOD SECURITY KIT FOR AWS

DOD SECURITY KIT FOR DFP

UPS FOR INFINIX DIGITAL
PROCESSOR

POWER DISTRIBUTION UNIT FOR
INFINIX-I

ADDITIONAL ON-SITE
APPLICATIONS TRAINING - 32
HOURS

BIOMED TRAINING - TUITION,
TRAVEL, LODGING - INFINIX SERIES
(8 CLASS DAYS)

TABLE TOP WIDTH EXTENSION FOR
CAT-880B

SINGLE ARM BOARD

BI-LATERAL ARM BOARD SET

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TABLE SIDE CONTROL EXTENSION
RAIL SET (PAIR)

FOOT-END TABLE CONTROL
MOUNTING RAIL FOR EXTENDABLE
RAIL OPTION

2" TABLE PAD FOR CAT-880B

2" TABLE FOOT-END EXTENSION
PAD FOR PART # XBET-001A

FOOT-END TABLE CONTROL
MOUNTING RAIL FOR CAT-
850B/CAT-860B

LOW CONTRAST IMAGING

3D ROADMAP WITH NEEDLE
GUIDANCE ON AWS

3D ROADMAP WITH MULTI
MODALITY FUSION (CT & MR) ON
AWS

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- Includes 12 Month Service Warranty.

INFINIX-I FOR INTERVENTIONAL NEURORADIOLOGY

Optimized for Interventional Neuroradiology, Infinix has the tools, the technology and the system to help clinicians reduce risk and save time in a complex and demanding clinical environment. Combining industry-leading image quality and dose management capabilities with exclusive ergonomic features and an array of advanced imaging applications, Infinix can enhance performance for every patient and every procedure.

Designed in collaboration with neurologists, Infinix improves the way we work without changing the way we work. With exclusive technology like WorkRite, it allows the performance of lengthy procedures more comfortably and effectively.

The Infinix is strategically designed to help you grow with your practice. Image the most complex coronary or peripheral artery diseases while enabling structural heart interventions. The unique mechanical design is perfectly suited to enable flexible position for faster, safer exams while creating an integrated cath lab environment.

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. The Infinix Elite

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product line has an 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.

Customizable features and award-winning training help you to accelerate and increase utilization of Infinix system innovations to enhance efficiency and help you improve patient care.

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INFINIX-I BIPLANE 12"X16" FPD SYSTEM WITH CAT-880B HYBRID TABLE

INFINIX-I BIPLANE 12"X16" FPD SYSTEM WITH CAT-880B HYBRID TABLE

STANDARD SYSTEM COMPONENTS

- | | |
|------------------|---|
| • CAS-880A/A1 | Five-Axis C-arm, Floor Mounted |
| • BLA-900A | Automatic Rotating Collimator (Qty 2) |
| • DSRX-T7345GFS | X-ray Tube for TFP-1216A/A1 |
| • DSRX-T7445GFS | X-ray Tube for TFP-1200A |
| • TFP-1216A/A1 | 12" x 16" Flat Panel Detector |
| • CAS-820B/A1 | Omega-arm, Ceiling Suspended |
| • TFP-1200A | 12" x 12" Flat Panel Detector |
| • XGCP-882BA | Tablesides Control HyperHandle |
| • CAT-880B | Hybrid Catheterization Table |
| • XBFS-880B | Multi-Function Footswitch for Bi-plane |
| • XTP-8100XG | High-Frequency X-ray Generator 100 kW (Qty 2) |
| • XIDF-AWS801/B1 | Angio Workstation |
| • DFP-8000B/B2 | Multitasking Digital Fluoroscopy Processor |
| • XIDF-MIC802 | Intercom Kit |
| • XIDF-MCC80B | Main Console |
| • XIDF-FS801B | Control Room Footswitch |
| • XJDK-002A/V5 | Dose Meter Controller for Bi-plane |
| • XJDC-016A | Dose Chambers (Qty 2) |

FIVE-AXIS C-ARM, FLOOR MOUNTED - CAS-880A/A1

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.

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Specifications:

- Variable rotation speeds up to 30 degrees per second for fast C-arm angulation
- Stroke of flat panel detector movement (SID): 350 mm, motor-driven
- Isocenter height: 1110 mm
- $\pm 90^\circ$ column rotation
- $\pm 135^\circ$ 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

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- 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

- Includes a standard 36 month non-prorated tube warranty for all new systems
- 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
- Continuous, high-speed (9000 rpm) anode rotation provides immediate display of fluoroscopic and fluorographic images

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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

HIGH-CAPACITY X-RAY TUBE WITH LIQUID METAL BEARING - DSRX-T7445GFS

- Includes a standard 36 month non-prorated tube warranty for all new systems
- 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
- 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: 0.4/0.6/0.9 mm
- Maximum ratings: 30/50/100 kW
- Target angle: 9 degrees
- Maximum anode heat storage: 3000 kHU
- Maximum housing heat storage: 2890 kHU
- Maximum cooling rate anode: 462 kHU/min

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- Maximum cooling rate housing: 296 kHU/min
- Heat exchanger: water cooled
- Anode rotation: 9000 rpm

12" x 16" FLAT PANEL DETECTOR - TFP-1216A/A1

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
- DQE of 77±5 %
- 16-bit pixel depth for extended dynamic range
- Rotation of $\pm 135^{\circ}$

OMEGA ARM, CEILING SUSPENDED - CAS-820B/A1

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: ± 70 mm

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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

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- 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" x 12"
 - 8" x 8"
 - 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 $\pm 135^\circ$

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.

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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)

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- 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-8100XG (QTY 2)

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)

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- 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

Parametric Imaging (PI) Functions

- Displays an entire image sequence as a single composite DSA image that is color coded in order to characterize the contrast media dynamics and to allow easier visual evaluation
- Color Coded Circulation (CCC) can create movies by shifting color scale gradually so that it is easy to understand vessel flow

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

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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

ANGIO WORKSTATION (AWS) XIDE-AWS801/B1

- Supports Analysis and Planning Software.
- Supports 3D-DA/DSA applications.
- Supports 3-D Roadmap and Multi-Modality Roadmap.
- Supports Parametric Imaging.

Note: All advance 3D and Analysis software is optional

MULTITASKING DIGITAL FLUOROSCOPY PROCESSOR - DFP-8000B/B2

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.

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- 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

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Features include:

- Peak Pixel Roadmap – provides the optimal, live, peak, fluoroscopic-subtracted roadmap image.
- Add Subtracted Fluoroscopy – provides a completely subtracted display to better visualize live contrast injections or embolic materials.
- CO₂ DSA – provides the optimal, live, CO₂ (low-density pixel), fluoroscopic subtracted roadmap image 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 Single Plane prospective recording 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.

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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
- Panoramic view (available with S-DSA)

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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.

INTERCOM KIT - XIDF-MIC802

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

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

FOOTSWITCH FOR CONTROL ROOM - XIDF-FS801B

Footswitch that enables fluoroscopy to be initiated from inside the control room.

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DOSE METER CONTROLLER FOR BI-PLANE - XJDK-002A/V5

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 μGycm^2
- Dose area product rate (DAP) in $\mu\text{Gycm}^2/\text{s}$
- 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 enable dose data for real-time display.

Image Maker Express

Image Maker Express is an online marketing resource that helps Toshiba customers build demand for imaging service by growing their referring physician and patient relationships. Image Maker Express includes:

- Easy-to-use marketing resources and tools developed exclusively for Toshiba customers to bring together effective marketing strategies and tactics.
- A wealth of collaterals and content to create high-quality brochures, print ads and more to help market the Toshiba customer's new imaging capabilities.

Image Maker Express Materials available include:

- Product images and logos
- Clinical images and videos
- PowerPoint presentations and promotional videos
- Brochure samples
- Customizable press releases and media tips
- Marketing strategy tutorials

**Offerings may vary per product*

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APPLICATION TRAINING

Each system includes a three phase education program and the industry exclusive Performance Pro guarantee.

Performance Pro is a unique approach to education utilizing blended learning with the promise of technical proficiency and optimal productivity. If for any reason the customer is not satisfied with any portion of the training, Toshiba will conduct that portion of the training again, at no charge.

Phase I: Two (2) attendance vouchers for a four (4) day technologist-focused course held at the Toshiba Institute of Advanced Imaging in Irvine, California. This course provides the fundamentals of operating Toshiba's Infinix VL system, including a variety of VL exams performed with the latest dose reduction techniques. This course includes in-depth lectures and hands-on training. At the completion of the course, the attendee will be proficient in the following applications and operations: basic to advanced VL imaging console operation, system menus, system default protocols, post-processing image data, and basic troubleshooting. This course is all inclusive of the following: tuition, airfare (booked by Toshiba), lodging, and meals. Accredited for CE credits by the ASRT Education Foundation.

Phase II: An initial thirty-two (32) hours, of on-site education will be provided at the customer facility during system go-live. This training is provided for up to four (4) imaging professionals including the two (2) that attended Phase I training, to focus on maximizing imaging techniques, protocols and system operation. Training is scheduled consecutively, Monday through Friday, with Monday mornings and Friday afternoons scheduled as travel time for the applications specialist. CE credits are earned by participants that attend the Phase II training event in its entirety.

Phase III: An additional sixteen (16) hours of on-site education will be provided for the same four (4) imaging professionals, which participated in Phase II training, approximately 6-8 weeks following installation to optimize staff proficiency and system productivity.

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Note: Toshiba personnel are not responsible for imaging patients, patient safety, any actual patient contact, or operation of equipment during education sessions. Toshiba will only demonstrate proper equipment operation.

The training is offered to the Customer at no charge, providing that it is completed no later than one (1) year after the warranty start date.

Additional classroom and onsite training is available for purchase.

Applications support is available by phone on the toll-free ASSIST line, 1-800-521-1968.

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.

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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.

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.

SINGLE ARM BOARD

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

OVER HEAD HANDGRIPS / ARMREST FOR CAT-880B

This armrest allows the patient's arms to rest comfortably when they are positioned above the patient's head.

For use with CAT-880B Table

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.

Note: Only for DFP-8000B and later versions.

CABINET CORNER 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.

Note: Only for DFP-8000B and later versions.

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21" COLOR MONITOR KIT

LCD FLAT-PANEL COLOR MONITOR 21

- 21.3" LCD monitor
- 1600x1200 display matrix
- 420 cd/m² luminance (typical)

SUPINE POSITION SCOOP ARM SUPPORT

- Patient weighted arm boards hold weight of patient's arm alongside the torso at the Infinix table edge
- Set of two

ANTI-FATIGUE FLOOR MAT

MAVIG TABLE MOUNTED RADIATION SHIELD

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.

INFINIX ANGIO WORKSTATION (AWS) WITHOUT 3-D ANGIO SOFTWARE

INFINIX ANGIO WORKSTATION (AWS) WITHOUT 3-D ANGIO SOFTWARE

- Supports Analysis and Planning Software.

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- Supports 3D-DA/DSA applications.
- Supports 3-D Roadmap and Multi-Modality Roadmap.
- Supports Parametric Imaging.

Note: All advance 3D and Analysis software is optional.

If it is desired to extend viewing and control of advanced imaging applications into the exam room the extension kit must be selected as an option and possibly other components dependent on current monitor configuration.

This AWS is compatible with DFP versions 4.50, 4.51, 5.30, 6.0 and 6.1.

LCD FLAT-PANEL COLOR MONITOR 21 (Qty 2)

- 21.3" LCD monitor
- 1600x1200 display matrix
- 420 cd/m² luminance (typical)

IMAGE CONNECTION MODULE FOR LARGE LCD MONITORS

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 large monitor. The ICM typically resides in the control room, where one ICM is needed for each video output intended to be displayed on the large LCD monitor.

MULTIPURPOSE TABLESIDE CONTROL KEYBOARD AND MOUSE EXTENSION KIT FOR AWS, AND UP TO THREE OTHER PORTS

KEYBOARD AND MOUSE TABLESIDE MOUNTING DEVICE

Designed to mount on any Infinix-i tableside rail set. Easily attaches to the tableside rails and provides an adjustable platform to hold a keyboard and mouse.

The assembly has multiple pivot points to accommodate a variety of positions to provide an ergonomic friendly setup. Enables the ability to conveniently place a keyboard and mouse right at tableside to interface with exam room monitors

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Also the assembly is designed to alternately mount a touch screen of monitor at tableside. Components are included to enable this attachment.

DOSE TRACKING SYSTEM

DTS provides a virtual patient dose map with real time tracking of estimated peak and accumulated skin dose during an interventional procedure.

- Color-coded and easy to read 3D spatial visualization of radiation exposure to the patient and clear indication of radiation distribution.
- Real time feedback enables the clinician to make procedural adjustments and thus limit exposure in any area for prolonged periods.
- Estimation of peak skin dose available on cardiovascular/neurovascular procedures.

Please note: Dose Tracking System requires AWS 6.0 (XIDF-AWS801/B1). Additional monitors for exam room viewing may be required depending on current configuration and are not included.

INTERVENTIONAL DASHBOARD TWO 30" MONITOR 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

- 4.0 mega pixel (2560 x 1600)
- 30 inch diagonal (~596 x 335 mm, H x W)
- 300 cd/m2 typical luminescence rating

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Connection Hardware

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

Keyboard and Mouse

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

LARGE 58" LCD MONITOR - MEDICAL GRADE

The 58" monitor displays critical patient information on one display and allows easy image display size, content or pattern changes with the joystick function on the Infinix tableside control.

The 58" monitor display system:

- Combined with Infinix-i imaging capabilities and the monitor suspension system, enhances the clinical environment and provides more critical patient information in one display.
- Improves the working space by reducing the profile of the monitor assembly and connection cabling.
- Provides and displays both patient information and anatomical images in a variety of sizes and patterns.
- Can quickly change from one enlarged image to six different displays, or choose from a multitude of display combinations.
- LMM Box is an ancillary component of the Eizo Video Integration Solution that enables video connectivity of multiple devices for display on the 58" monitor.
- Package includes a video scaler to accommodate automatic recognition of variable video resolution formats includes VGA, DVI, BNC and S-Video connectors for external Video input of mobile devices (i.e. Ultrasound) used during the case.
- Two (2) 19" Monochrome backup monitor is included.

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Components

- High-resolution 58" monitor display
- Monitor guard
- Digital processor with up to 27 inputs to manage image display sizes and patterns
- Programmable touch panel to change and arrange image sizes and display patterns based on clinical preferences
- Video scaler and DVI extender for connection of mobile devices at tableside.

Monitor suspension sold separately

19" COLOR MONITOR (Qty 2)

MONITOR MOUNT BRACKET ASSEMBLY (Qty 2)

Mounts one smaller monitor, typically 19", on the rear of a large LCD monitor suspension unit.

- Bracket holds one smaller monitor (typically non-fluoro) with a 100 VESA mount
- Mounts to rear on either side of the large LCD suspension assembly to provide additional location for alternate monitor (maximum of two monitors, one for each side)

Note: Total weight of each monitor must not exceed 20 lbs each. Maximum weight of combined optional items may not exceed 155 lbs. Consult with your Toshiba representative to determine total weight payload.

Alternate monitor sold separately.

INSTALLATION CABLES FOR LARGE LCD MONITOR

CABINET FOR LARGE LCD COLOR DISPLAY MONITOR

Wall or floor mounted storage unit to house large LCD monitor electronic components.

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TRIPP LITE WALL MOUNT CABINET

PROTECTOR FOR LARGE LCD MONITOR

Provides protection for the large LCD 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 large LCD monitor protection device.

UNIVERSAL CONNECTION MODULE FOR LARGE LCD MONITOR

The UCM enables connection of a variety of mobile medical devices for video input on the large LCD monitor. This unique design is capable of accepting and converting video signal from; DVI, VGA, BNC, and S-Video. Only one video signal can provide input at a time.

DVI EXTENDER AND RECEIVER CABLE

IMAGE CONNECTION MODULE FOR LARGE LCD MONITORS (Qty 5)

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 large monitor. The ICM typically resides in the control room, where one ICM is needed for each video output intended to be displayed on the large LCD monitor.

IMAGE CONNECTION MODULE FOR LARGE LCD MONITORS (Qty 25)

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 large monitor. The ICM typically resides in the control room, where one ICM is needed for each video output intended to be displayed on the large LCD monitor.

LARGE LCD MONITOR SUSPENSION FOR CAS RAILS FOR BIPLANE, CEILING AND DUAL PLANE SYSTEMS

Optimizes monitor positioning around the patient table with an articulating arm for vertical height adjustments and a column that allows virtually 360

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degree rotation. The transverse provides ample side-to-side positioning with a 60-inch movement range.

- Holds one large LCD 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.

IMAGE CONNECTION MODULE FOR LARGE LCD MONITORS

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 large monitor. The ICM typically resides in the control room, where one ICM is needed for each video output intended to be displayed on the large LCD monitor.

UNIVERSAL CONNECTION MODULE FOR LARGE LCD MONITOR

The UCM enables connection of a variety of mobile medical devices for video input on the large LCD monitor. This unique design is capable of accepting and converting video signal from; DVI, VGA, BNC, and S-Video. Only one video signal can provide input at a time.

DVI EXTENDER AND RECEIVER CABLE

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HEAD-END ACCESSORY RAIL FOR CAT-880B

Clamps to the edge of CAT-880B table:

- Head-end
- 14.5" down each side of tabletop

An I.V. drip holder can be mounted to this rail.

HEAD-END DRAPE HOLDER FOR CAT-880B

Mounted on the edge of catheterization table to keep the drape away from the patient's face.

OVER HEAD HANDGRIPS / ARMREST FOR CAT-880B

This armrest allows the patient's arms to rest comfortably when they are positioned above the patient's head.

For use with CAT-880B Table

WIRELESS FOOTSWITCH FOR CAT-850B BIPLANE

The wireless footswitch provides cable-free operation. More flexibility for the customer, and easy maintenance. This kit requires a Table Modification Kit XBFM-880A in accordance with the combined table.

Key Product Features:

- Charging time: 4.5 hours
- Standby mode time: 48 hours
- Continuous use: 20 hours
- Battery needs to be replaced after 500 hours or 1 year
- 5M max distance from transmitter
- AC Charger
- System Cable to direct connect footswitch to table
- LED indicators for charged, charging, needs charge
- LED indicators also indicates errors

Prerequisite - requires software version 6.1 or above

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MAVIG 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.

MAVIG PORTEGRA2 (95/90 CM) EXTENSION SPRING ARM WITH CENTER MOUNTED CONTOUR CUT-OUT SHIELD (61X76 CM)

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.

MAVIG PORTEGRA2 (75/90 CM) EXTENSION SPRING ARM WITH M130F LED LAMP

The MAVIG M130F LED Lamp provides 60,000 LUX of focusable light ranging from 14 to 25 cm field size.

MEDRAD / BAYER MARK 7 ARTERION INJECTOR (TABLE MOUNT)

The Mark 7 Arterion Table Mount injector takes advantage of latest technologies, making it light, maneuverable and easy to use.

Includes:

- Table rail mount
- Ergonomic injector head handle for easier maneuverability
- Unique front-load syringe
- Desk type display control unit
- Imaging system interface
- Injector installation by Medrad included

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MEDRAD / BAYER MARK 7 ARTERION FREE STANDING PEDESTAL

Provides convenient storage location for the injector head when it is necessary to get the injector head off the table rail.

2D ROTATIONAL SPIN ANGIOGRAPHY

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
- 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

SPOT FLUORO

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.

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BASE 3D ACQUISITION SOFTWARE (ALSO REQUIRES VITREA VL 3D PACKAGE)

This option for Infinix systems provides the necessary 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 workstation provides fast transfer and display of the 3-D images on the Vitrea VL 3-D software.

This option is integral and a prerequisite for the optional Low Contrast Imaging (CT-like data) and Roadmapping options.

ADDITIONAL ON-SITE APPLICATIONS TRAINING - 32 HOURS

Four (4) days, thirty-two (32) hours, of additional onsite applications support. Training is scheduled consecutively, Monday through Friday, with Monday mornings and Friday afternoons scheduled as travel time for the applications specialist.

inclusive of application specialist's expenses.

Note: Toshiba personnel are not responsible for scanning patients, patient safety, any actual patient contact, or operation of equipment during education sessions. Toshiba will only demonstrate proper equipment operation.

Education expires two (2) years from the later of purchase date or warranty start date.

VITREA WORKSTATION ANGIO VL3D PACKAGE, INCLUDES 3-D ANGIO AND GENERAL VESSEL PROBE, POST PROCESSING SOFTWARE, HARDWARE, AND EDUCATION TRAINING UNITS

LCD FLAT-PANEL COLOR MONITOR 21

- 21.3" LCD monitor
- 1600x1200 display matrix

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- 420 cd/m² luminance (typical)

VITREA WORKSTATION, HARDWARE

VITREA ANGIO XA PACKAGE

VITAL SERVICES, VITAL U EDUCATION UNITS (Qty 12)

One Vital U Education Unit

Vital education units from Vital Images professional educational organization that can be applied in any combination toward the cost of courses offered below. All courses are taught by Vital's clinical and technical experts.

Course Title	Setting	Days	Units Required
Advanced Visualization Fundamentals	Classroom	3	2
Advanced Visualization Fundamentals - Core (<i>Prerequisite: Advanced Visualization Fundamentals</i>)	Classroom	1	1
Specialty Instruction for Colonography, Cardiovascular, Neurology or Oncology (Advanced)	Classroom	2	2
Advanced Enterprise Administrator course	Client Classroom	2	3
Advanced Visualization Course	Client Facility	2	6
Enterprise Advanced Visualization	Client Facility	3	9
Include Travel to Classroom	NA	NA	2
eLearning *	Online	N/A	Unlimited

Minimum of 2-days per on-site visit.

* Available to customers with a Maintenance and Support agreement at no additional charge.

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VITAL SERVICES, 1ST LEVEL SUPPORT, VITREAWORKSTATION

DOD SECURITY KIT FOR AWS

DOD SECURITY KIT FOR DFP

SECURITY KIT FOR DEPARTMENT OF DEFENSE XIDF-SEC802

This kit enables compliance with the security requirements of the United States Department of Defense. When XIDF-AWS801/B1 is combined, it requires a Security Kit for DoD (XIDF-SEC702) for Angio Workstation as well.

When the above kits are installed, the following 3 items requiring FTP Transfer will be disabled.

- Output of database (Patient information and studies)
- Archives of pixel data in ROI (ROI measurement)
- Connection with InnerVision™

In addition to installation of this kit, separate action is required in order to support DoD inspection requirements, and to install the latest security patches. Contact your Toshiba service representative for details.

UPS FOR INFINIX DIGITAL PROCESSOR

This UPS provides protection for the imaging RAID and the electronics in the Digital Processor from being damaged during any unexpected power interruption from the main power line. Further than that, when the battery in the UPS is fully charged, this UPS is capable of handling any black out or brown out for up to 10 minutes without needing to reset the full vascular system.

During the black out, the main power supply to the X-ray generator will be out, hence not possible to perform X-ray exposure or C-arm motion. However, the Digital Processor and all the system monitors in the lab will be up and running due to the protection of this UPS. Once power is restored from the main power line, all X-ray acquisition functions and the lab

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mechanical motion can be performed, almost instantaneously, avoiding the need for power recycling of the vascular system.

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

ADDITIONAL ON-SITE APPLICATIONS TRAINING - 32 HOURS

Four (4) days, thirty-two (32) hours, of additional onsite applications support. Training is scheduled consecutively, Monday through Friday, with Monday mornings and Friday afternoons scheduled as travel time for the applications specialist.

, inclusive of application specialist's expenses.

Note: Toshiba personnel are not responsible for scanning patients, patient safety, any actual patient contact, or operation of equipment during education sessions. Toshiba will only demonstrate proper equipment operation.

Education expires two (2) years from the later of purchase date or warranty start date.

BIOMED TRAINING - TUITION (8 CLASS DAYS)

- INFINIX SERIES

The Infinix Series training course is for biomed customer engineers who will have the responsibility to provide support for any of the Infinix-I Series Vascular X-ray system configurations including Angio and Cardiac. The

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training course will focus on the Infinix theory of operation, diagnostic procedures, calibration, preventative maintenance, and repair.

This course will also cover the Flat Panel Display technology.

This course will be conducted with a blend of instructor-led classroom discussions and laboratory hands-on practice.

This course includes KXO 8100G and Vascular Positioner.

As part of the requirements to pass this course, all biomedics will be required to participate in lab exercises. There will also be review sections during the class that will be used to check comprehension of various course modules.

Prerequisites

- Basic X-Ray and Fundamental Knowledge (VA110)
- Vascular Introduction Study Guide (VA111)

Students must bring notebook computers equipped with Pentium-class CPUs, 1GB or more of available hard disk space, Windows 2000 or XP, Office 97 or later, CD-ROM drive, serial port RS232, and network connectivity. Laptops are not available to borrow or rent during class.

TABLE TOP WIDTH EXTENSION FOR CAT-880B

Carbon fiber plate for expanding the width of the tabletop.

SINGLE ARM BOARD

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

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BI-LATERAL ARM BOARD SET

Table mounted arm rest enables support for both arms.

TABLE SIDE CONTROL EXTENSION RAIL SET (PAIR)

- Designed for application with the CAT-850B, CAT-860B or CAT-880B tables only
- Tableside rail set (2), one for each side
- Designed to accommodate Infinix table controls and common accessories (e.g., I.V. pole)

FOOT-END TABLE CONTROL MOUNTING RAIL FOR EXTENDABLE RAIL OPTION

Clamp and rail system attaches to existing side rails at foot end of CAT-850B/CAT-880B, creating a new rail across the foot end of the Infinix table for system controls.

Prerequisite: XBER-001, Table Side Rail Set (Pair) for CAT-850B or CAT-880B.

2" TABLE PAD 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.

2" TABLE FOOT-END EXTENSION PAD FOR PART # XBET-001A

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.

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FOOT-END TABLE CONTROL MOUNTING RAIL FOR CAT-850B/CAT-860B

Clamp and rail system attaches to existing side rails at foot end of CAT850/870, creating a new rail across the foot end of the Infinix table for system controls.

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

3D ROADMAP WITH NEEDLE GUIDANCE ON AWS

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

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- 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

3D ROADMAP WITH MULTI MODALITY FUSION (CT & MR) ON AWS

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 or MR scanner or the Toshiba Infinix systems using LCI or 3-D Angio.

3-D volumes are reconstructed using the Angio Work Station PC, then projected on the Infinix 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 DFP-8000B/B2 and XIDF-AWS801/B1 or later, 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.