

TOSHIBA

Leading Innovation >>>

Afinix™ VF-i/BP
Multi-Access Biplane Lab

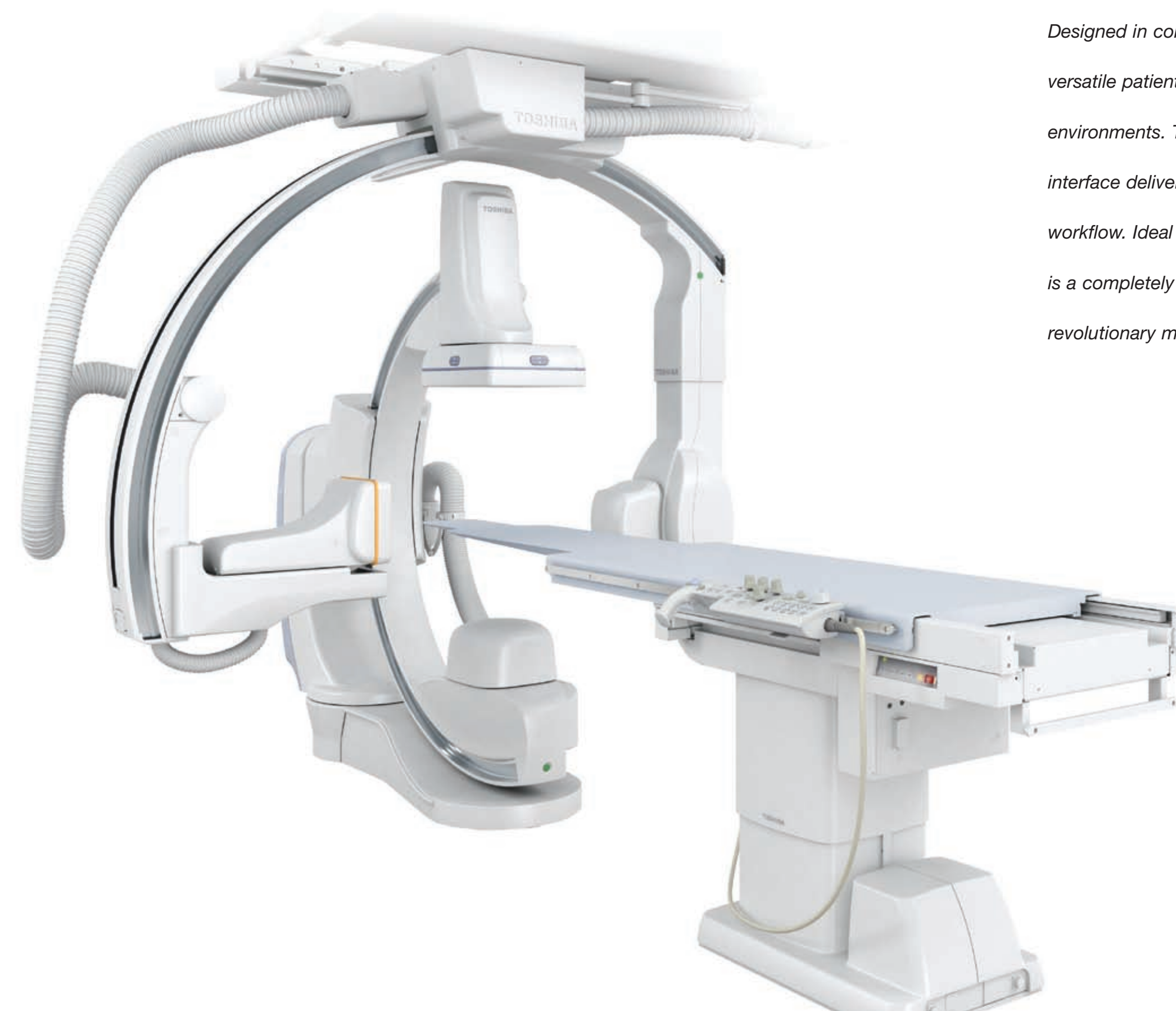


Advanced technologies deliver optimized biplane imaging

Designed in concert with leading physicians, the Infinix™ VF-i/BP provides advanced, versatile patient access to meet the demands of today's multi-discipline imaging environments. The system's revolutionary multi-tasking computer and intuitive user 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 is a completely new approach to biplane imaging designed to take advantage of its revolutionary multi-axis C-arm.

Major improvements in image quality, patient access and ease of use

- ▶ Comprehensive biplane imaging without compromising patient access
- ▶ High-resolution, flat panel images with uniform brightness and no distortion
- ▶ Quiet instant-on, liquid-metal bearing X-ray tube for efficient exams
- ▶ Unique lateral arm adjustment to quickly optimize imaging angles
- ▶ Valuable dose-saving features:
 - X-ray beam filtration
 - Last image hold with virtual collimation
 - Variable frame rates in fluoroscopy and digital angiography
- ▶ Major DICOM service classes included, which provide open access to patient information



Unparalleled patient access: meeting the needs of all physicians

The Infinix VF-i/BP is designed to provide superior access to the patient – an important point of distinction in the imaging landscape that now often requires the attention of a wide range of specialists. In hybrid procedures that may require a full complement of specialists including surgeons, neuroradiologists and anesthesiologists, the Infinix VF-i/BP is at its best.

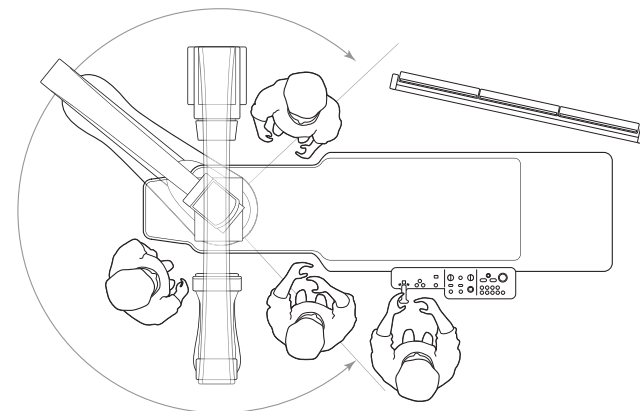
Efficient tableside control

The hyperhandle design and tableside console layout allow clinicians to more effectively concentrate on the patient and the image data providing a more patient focused examination.

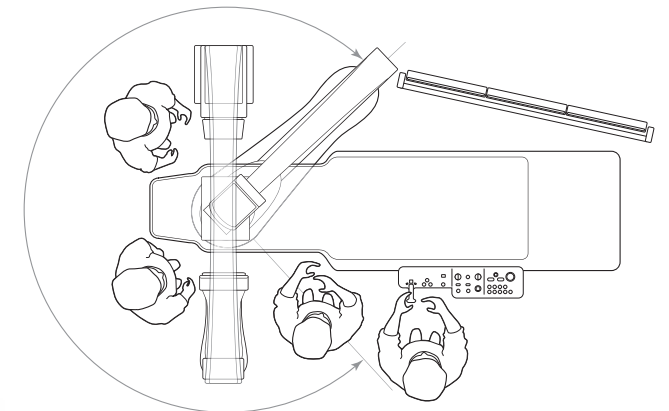
- ▶ Workflow is enhanced by tableside access to key functions through a specially designed graphical user interface
- ▶ During image review, a single keystroke enables system setup from any selected image
- ▶ Automatic archiving provides immediate recall of images at tableside without interruption



▲ Compact tableside control provides ergonomic and tactile control of all exam functions for rapid component positioning, up to 20 degrees per second, and control of digital processing functions.



▲ In this configuration, the head end of the table has 145 degrees of space allowing easy access for your anesthesiologist.



▲ The five-axis design provides a new level of access to the patient. The head end of the table has a full 180 degrees of space allowing the necessary physicians to conveniently access the patient and still provide biplane viewing.



Distortion-free flat panel biplane imaging

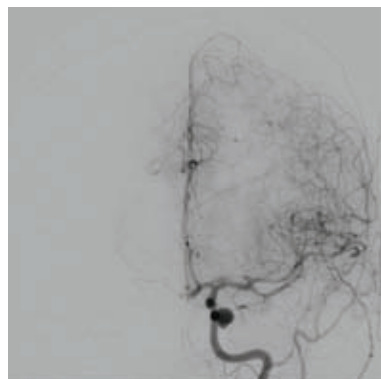
Toshiba's high-definition flat panel detectors deliver superior contrast and dynamic resolution. Whether processing biplane fluoroscopy or biplane digital angiography, the images demonstrate a fine balance of low noise and easy visualization of contrast flow, with a sharp display of small details of interventional devices.

- ▶ Real-time processing capabilities produce high-resolution flat panel images with uniform brightness and no distortion in both single plane and biplane mode
- ▶ Biplane acquisition at 15 fps with 1024 x 1024 resolution stops rapid motion and allows simultaneous display of both AP and lateral images in real time
- ▶ Advanced processing capability delivers high-quality biplane imaging from the smallest pediatric patient to the heaviest adults
- ▶ Combination of small and large flat panel displays retain anatomical accuracy with matched fields of view

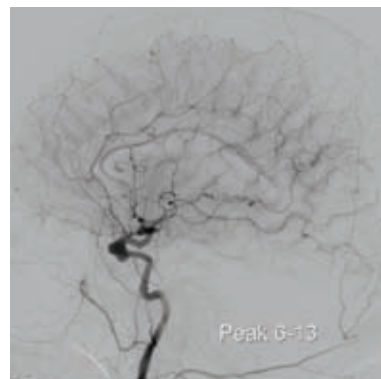


Fast, easy flat panel positioning

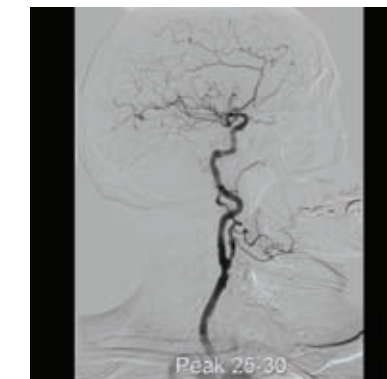
The 12" x 16" flat panel detector can be positioned in portrait or landscape orientations. Manually or automatically, these positions can be achieved with the simple touch of a button.



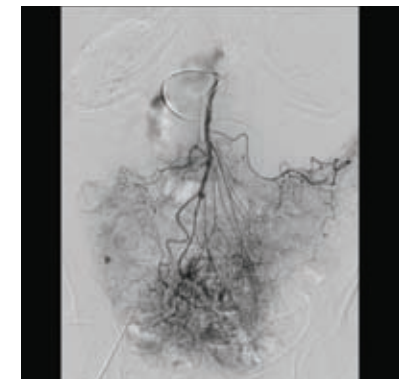
▲ PA/Cranial projection acquired in 8" FOV on 12" x 16" FPD. Multiple frames integrated for PEAK image.



▲ Lateral projection simultaneously acquired on 8" FOV on 8" x 8" FPD. Multiple frame integrated for PEAK image.



▲ Large FPD can be utilized for a frontal or lateral projection, in this case providing coverage of cervical carotid and cerebral carotid circulation.



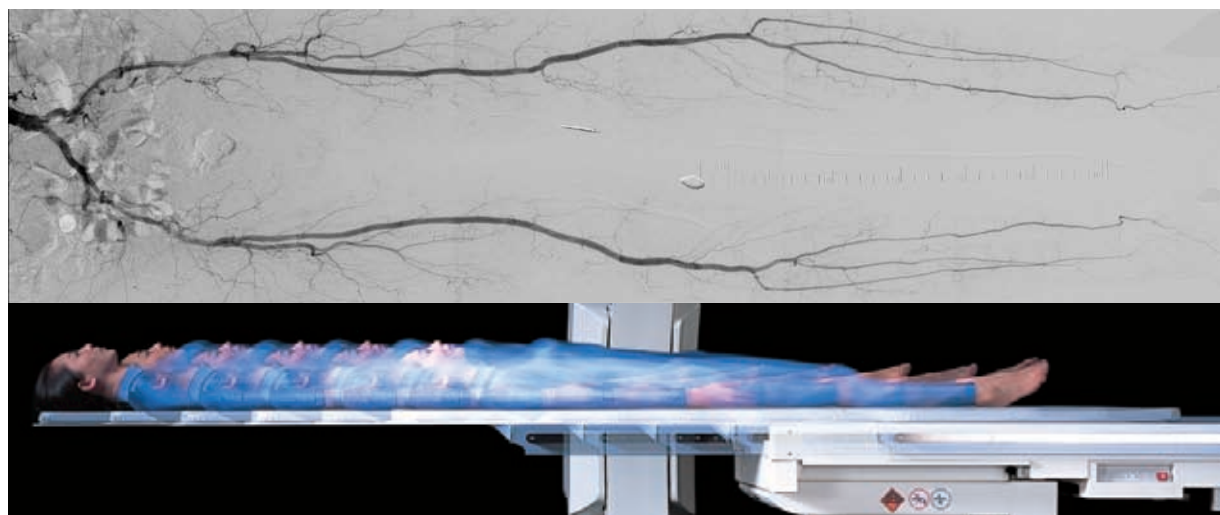
▲ Optimum abdominal coverage can be achieved with the large FPD, as evidence by this SMA injection for GI bleeding.

Advancing biplane imaging from head-to-toe

With its comprehensive positioning and image review capabilities, the Infinix VF-i/BP accommodates a wide range of procedures. Advanced conventional and 3D imaging technologies provide unprecedented imaging with unique tools to enhance both diagnostic and interventional procedures. These powerful imaging and processing tools enhance clinicians overall treatment planning capabilities.

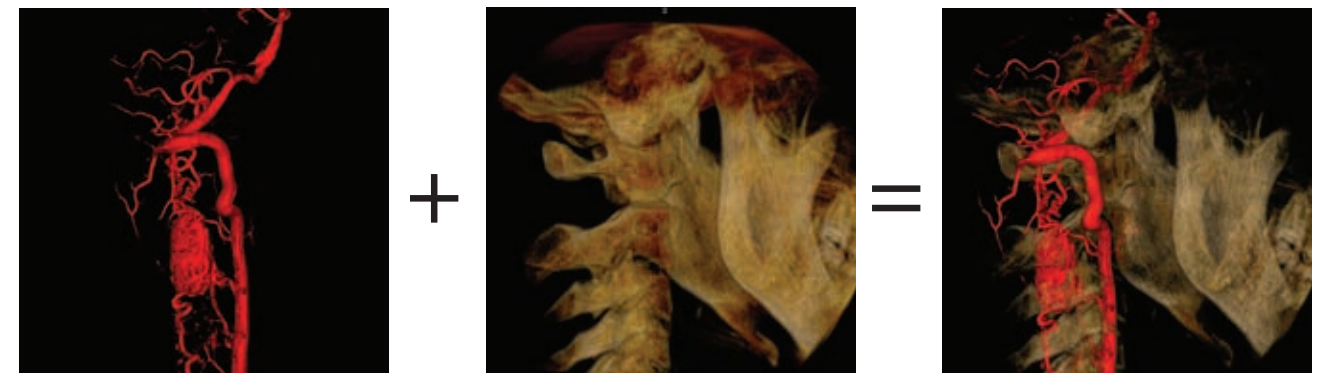
Peripheral DSA

Oriented for wide coverage, the 12" x 16" flat panel provides full imaging of the lower extremities. After programmed setup, the table is stepped by manual activation while watching the bolus flow for accurate reliable results. Typically, a single injection can cover the total peripheral anatomy.



3D-Angio

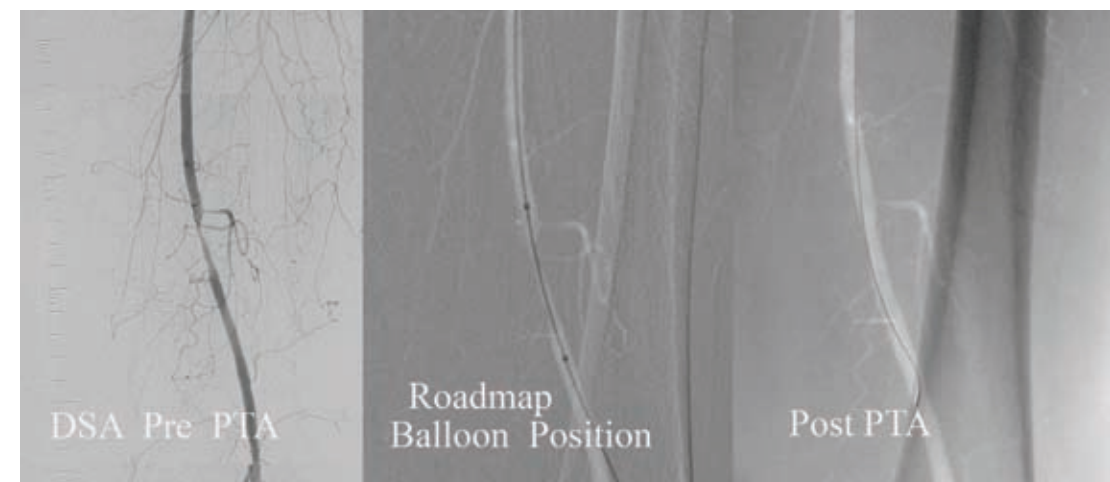
Easy setup and execution of mask and arterial phase are used to create bone or device fusion.



Guide View provides a clinical “roadmap”

Toshiba’s “Guide View” provides a superimposed roadmap over live fluoroscopy images, facilitating accurate device placement within a targeted vascular anatomy.

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



Dose-reduction technologies *for patient and operator*



X-ray beam filter

Toshiba's beam filtration can dramatically reduce absorbed patient dose and radiation scatter. At tableside, clinicians can select the mode of choice to limit dose and optimize image quality.

Variable dose mode

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

Virtual collimation

After 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 eliminates the need to use smaller fields of view on the detector for magnification purposes, which would increase the dose required.

Fluoroscopic acquisition

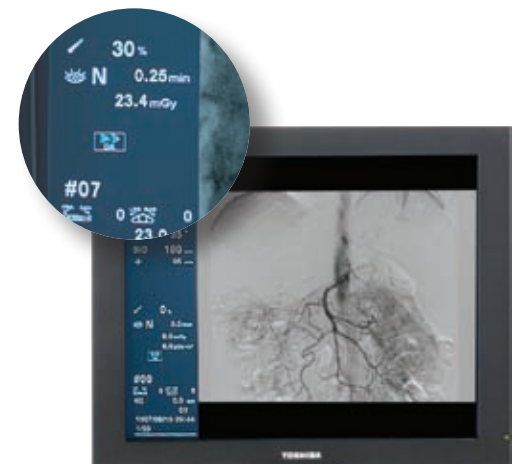
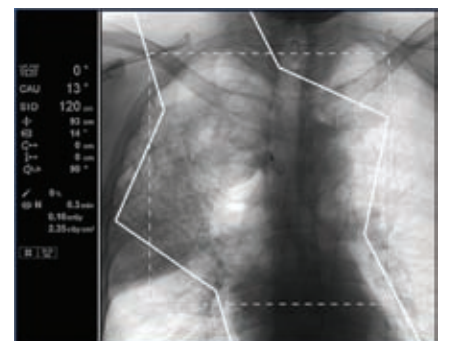
Clinicians can capture still and dynamic images for future reference during fluoroscopy. These archived images represent an alternative to fluorography and a major reduction in dose exposure.

Dose control (option)

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 patient care with complete tableside control.



Advanced system design drives higher productivity

Infinix VF-i/BP is equipped with Sequential Navigation for physicians to quickly “navigate” through an exam (e.g., carotid, renal or runoff). Infinix VF-i/BP executes the preferred angles, projections, and acquisition parameters, all from memory. One touch of a button enables navigation through the routine settings for each exam type. Operators have the freedom to change any parameter throughout the procedure without disrupting Sequential Navigation.

► Infinix VF-i/BP can store virtually any number of customized exam types for any number of operators. This unique Toshiba feature dramatically boosts productivity.

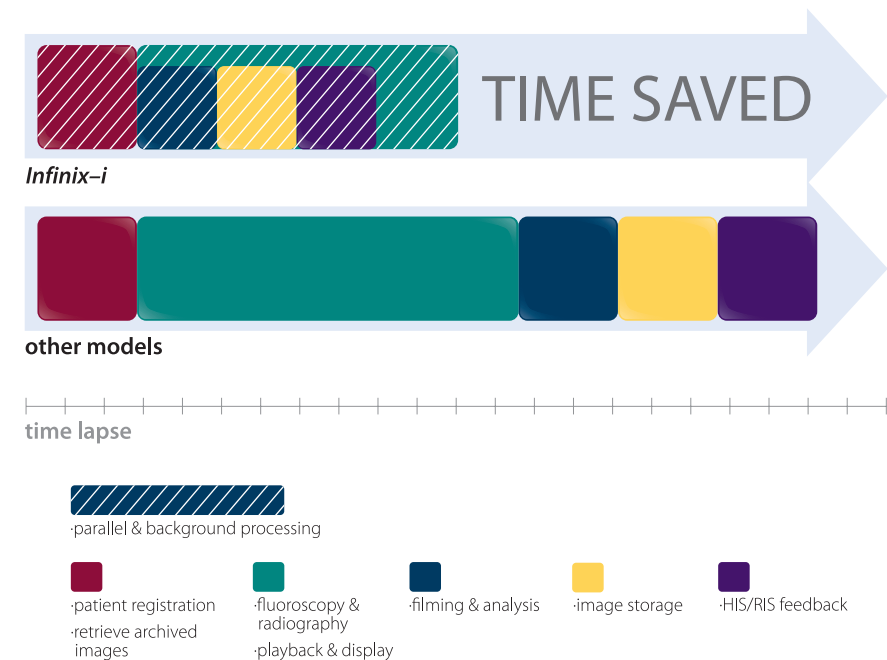
► Customizable exam parameters include:

- C-arm position and angulation
- Table height
- Source-to-image distance
- Compensation filter settings
- Acquisition rate
- Image size
- Field of view
- Generator settings
- Digital processing

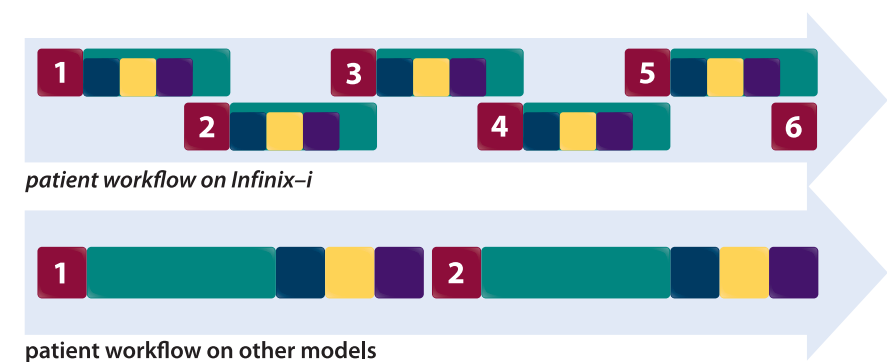
More efficient exams with parallel processing and true multitasking
Simultaneously processing and transferring image data during acquisition yields quick, efficient exams. For example, during fluoroscopy and fluorography, operators can prepare for the next scheduled patient, process and save images from a previous (or current) study; and transfer or archive images to an associated network.

The advantages of parallel processing

For One Procedure

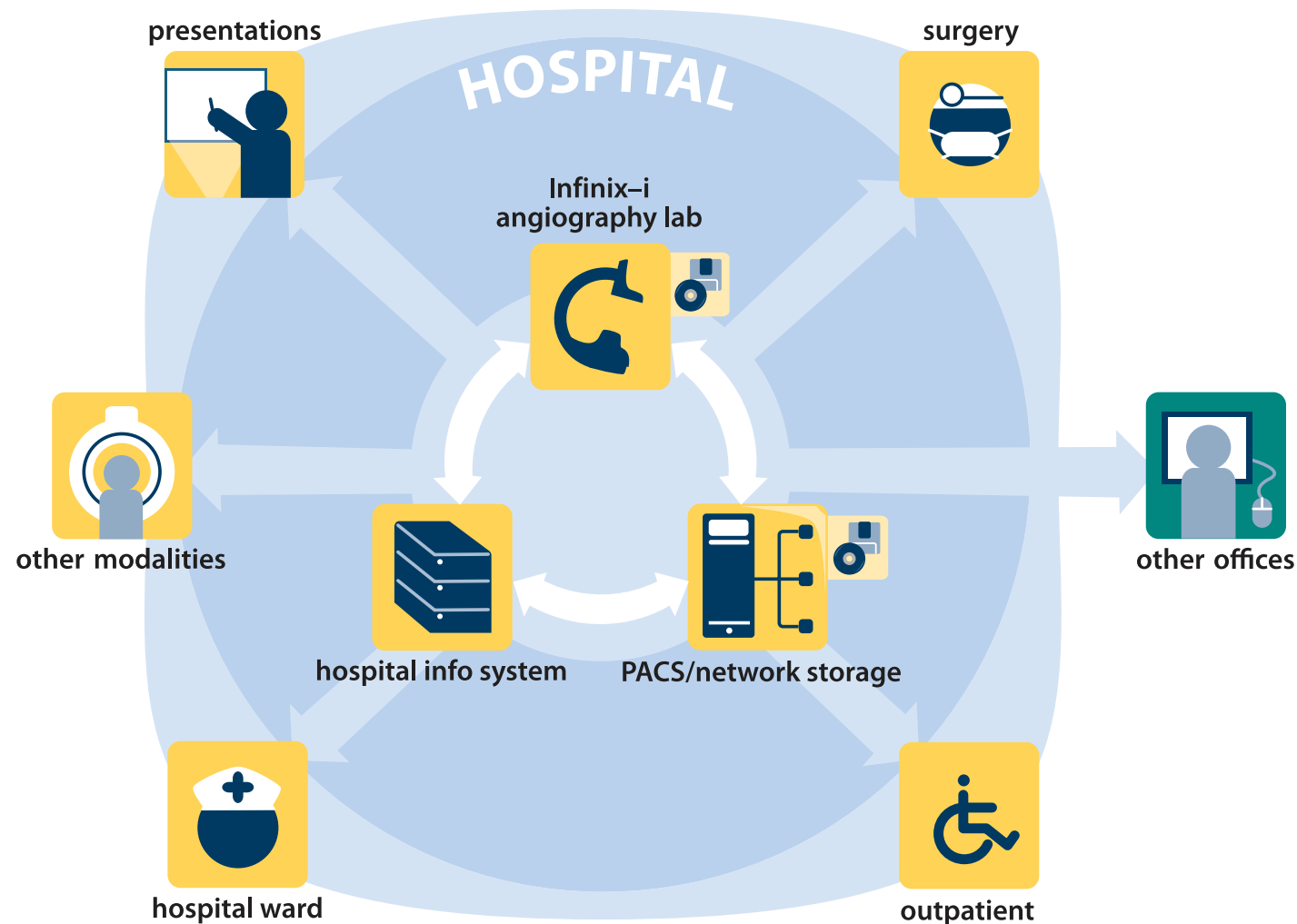


For One Lab

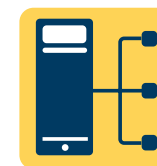


Access to patient information with seamless network integration

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.



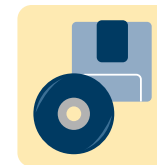
Infinix-i: Dynamic viewing and flexible network integration permits rapid export and retrieval of images. Open communications with HIS/RIS provides rapid transfer of patient information.



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



Presentations: Clinical data can be exported as PC format files for use in presentations.

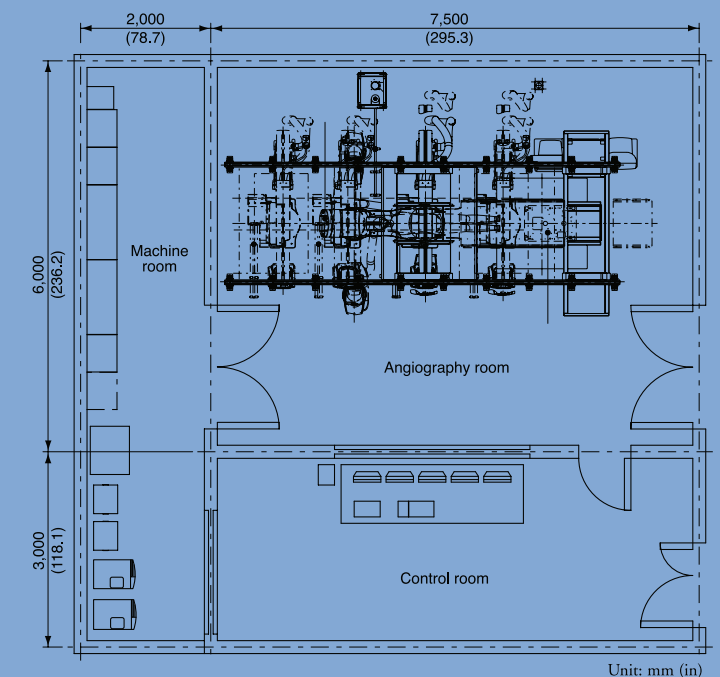


DICOM CD-R/DVD-RAM: Serve as long-term and portable storage media for valuable image data.

Compact design for easy siting



A typical system layout



Unit: mm (in)

INNOVATION **BY DESIGN**

For over 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, X-ray and nuclear medicine. From creating our first X-ray tube in 1915 to introducing the first compact, dual-plane cath lab with flat panel detectors in 2005, 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
- 2002 • First 400 msec CT Scanner
- 2003 • First 64-slice CT Scanner
- 2005 • Largest 90 cm Large Bore CT Scanner
- 2005 • First Compact Dual Plane Cath Lab with Flat Panel Detectors



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