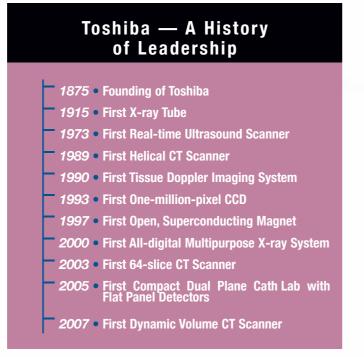
INNOVATION BYDESIGN For over 130 years, Toshiba has

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 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.

TOSHIBA Leading Innovation >>>



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Management System standard, ISO

Printed in Japan

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lnfinixVF-i/BP



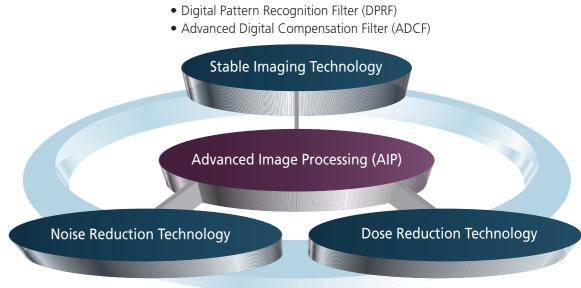
- Type S - 12" \times 12" / 12" \times 12" Flat Panel Detector

Advanced technologies deliver optimized biplane imaging

Designed in concert with leading pediatric physicians, the 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 VF-i/BP is a completely new approach to biplane imaging designed to take advantage of its revolutionary multi-axis C-arm.



Advanced Image Processing (AIP) provides superb image quality for visualization of vessels and device.



Super Noise Reduction Filter (SNRF)

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

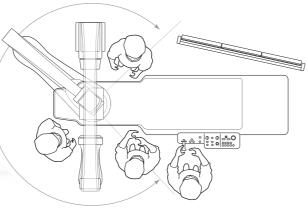
- Comprehensive 12" x 12" biplane imaging without compromising patient access
- High-resolution, flat panel images with uniform brightness and no distortion
- Quiet instant-on, liquid-metal bearing X-ray tube for efficient exams
- Unique lateral arm adjustment to quickly optimize imaging angles
- Valuable dose-saving features:
 - Various pulse rate controlled with grid
 - X-ray beam filtration
 - Variable frame rates in fluoroscopy and digital angiography
 - Last image hold with virtual collimation
- Major DICOM service classes included, which provide open access to patient information
- New generation filter made it possible the reduction of noise with high spatial resolution and less lag. The new filter enhances high-definition images of small devides and structures (Super Noise Reduction Filter: SNRF).

Auto Beam Filter function



Unparalleled patient access: meeting the needs of all physicians

The 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 VF-i/BP is at its best.





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

Efficient tableside control

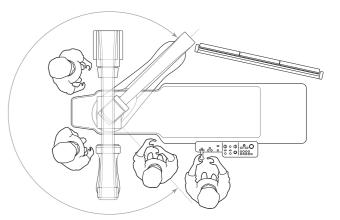
The hyperhandle design and tableside console layout allow clinicians to more effectively concentrate on the patient and the image data providing a more patient focused examination.

- 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





functions for rapid component positioning, and control of digital processing functions.



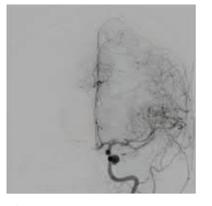
The five-axis design provides a new level of access to the patient. The head end of the table has a full 180 degrees of space allowing the necessary physicians to conveniently access the patient and still provide biplane viewing

Distortion-free flat panel biplane imaging

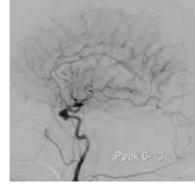
Toshiba's high-definition flat panel detectors deliver superior contrast and dynamic resolution. Whether processing biplane fluoroscopy or biplane digital angiography, the images demonstrate a fine balance of low noise and easy visualization of contrast flow, with a sharp display of small

details of interventional devices.

- Real-time processing capabilities produce highresolution flat panel images with uniform brightness and no distortion in both single plane and biplane mode
- Biplane acquisition at 15 pps 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 patients to the heaviest adults
- The 12" x 12" FPDs provided on both planes can be set close to the head for neuro imaging.



PA/Cranial projection acquired in 8" FOV. Multiple frames integrated for PEAK image.



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



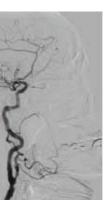
12" x 12" FPD can be utilized for a frontal or lateral projection, in this case providing coverage of cervical carotid and cerebral carotid circulation.

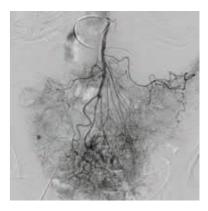




Quick and easy flat panel detector positioning

Vertical movement of the flat panel detector of the Ω -arm can be linked with vertical movement of the X-ray tube, enabling quick and easy positioning.





Optimum abdominal coverage can be achieved with the 12" x 12" 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 VF-i/BP

accommodates a wide range of procedures. Advanced conventional and 3D imaging

technologies provide unprecedented imaging with unique tools to enhance both

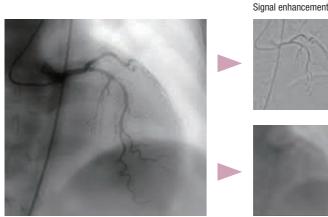
diagnostic and interventional procedures. These powerful imaging and processing

tools enhance clinicians overall treatment planning capabilities.

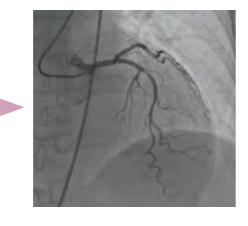
Advanced image processing technology

The use of Toshiba's unique Advanced Digital Compensation Filter (ADCF) and Digital Pattern Recognition Filter (DPRF) in combination produces images of unparalleled clarity. ADCF is a background processing technique that is useful for reducing halation in the lung field and for correcting dark areas such as the mediastinum. DPRF is useful for depicting devices and blood vessels. It enhances the contrast of devices and blood vessels and at the same time recognizes all other areas as noise, reducing the amplitude of the signals from these areas.

SNRF significantly reduces image noise in 14-bit gray scale images without requiring the X-ray dose to be increased. It achieves this by recognizing and reducing the noise components in each individual image frame.







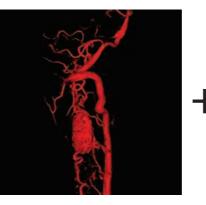
Peripheral DSA

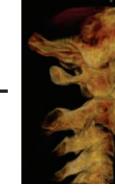
Oriented for wide coverage, the 12" x 12" flat panel provides full imaging of the lower extremities. After programmed setup, the table is stepped by manual activation while watching the bolus flow for accurate reliable results. Typically, a single injection can cover the total peripheral anatomy.



3D-Angio

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

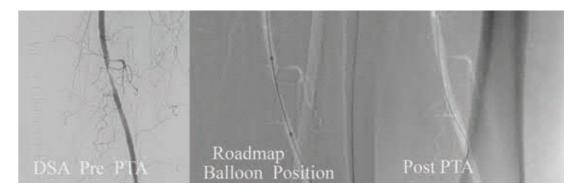


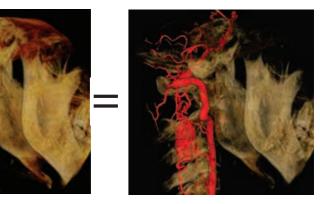


Guide View provides a clinical "roadmap"

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 pulse rates, dose level, and image processing parameters optimize various study protocols.

Virtual collimation

After fluoroscopy, virtual collimation uses software to simulate collimator and beam filter 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

Operators 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.

F-STORE: Fluoroscopic images for up to the last 10 seconds can be recorded on the image disk after fluoroscopy is completed.

Dose display

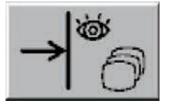
Radiation dose can be monitored in real time. The operator can observe dose levels on a digital display in the examination room.



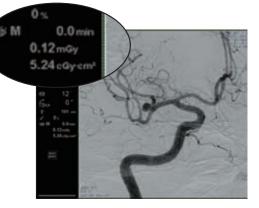
increased productivity and patient care with complete tableside control.

Clinicians enjoy the added advantage of









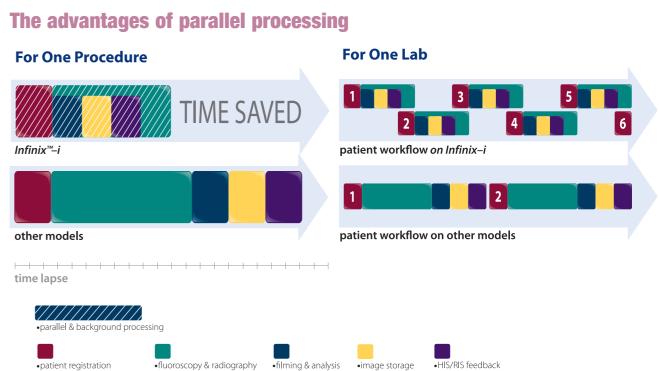
Advanced system design drives higher productivity

VF-i/BP is equipped with Sequential Navigation for physicians to quickly "navigate" through an exam (e.g., carotid, renal or runoff). 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.

- *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/Ω -arm position and angulation Image size
 - Table height
 - Source-to-image distance
 - Compensation filter settings
 - Acquisition rate
- 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.



•retrieve archived images

playback & display

Live monitor





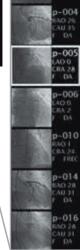


Main console take over the same design with the table side hyper handle for user friendliness.

Reference monitor



the reference monitor as a thumbnail. The images can be easily selected by mouse operation.

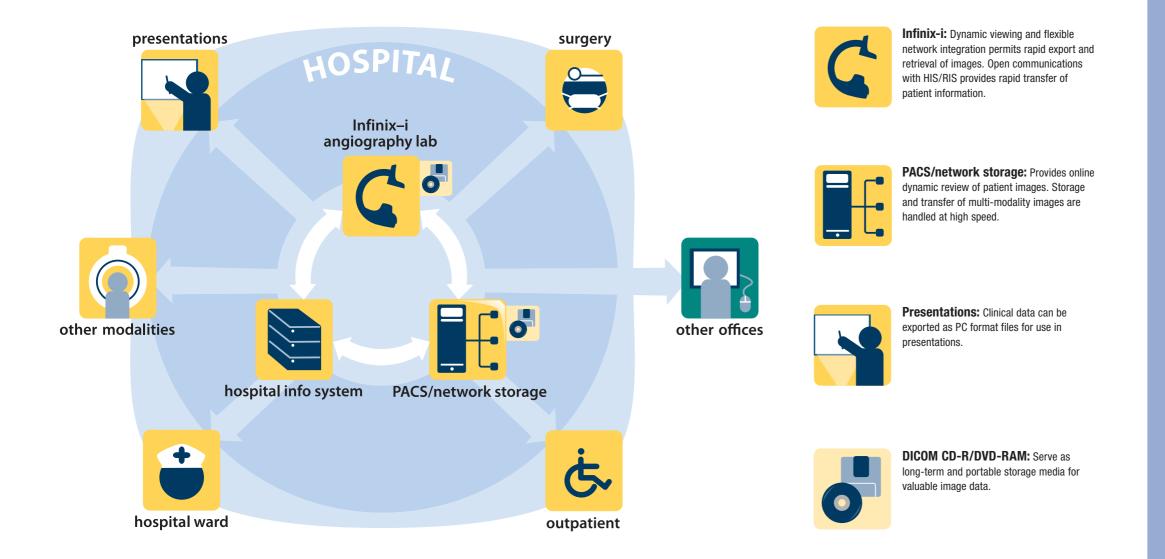


Access to patient information with seamless network integration

The 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.



Compact design for easy siting



A typical system layout

