


LEADING INNOVATION

For over 130 years, Toshiba has been a world leader in developing technology to improve the quality of life. Some 50,000 patents demonstrate that rich history of "Leading Innovation".

Toshiba's family of advanced imaging systems for CT, MRI, ultrasound, cath labs and X-ray proves something else. By listening to our customers and gaining a deep understanding of their needs, we can develop leading innovation that improves patient care in line with our philosophy, "Made for Life™", improving the business of healthcare at the same time.

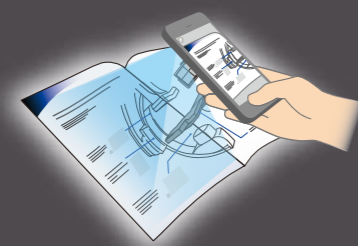
1875	Toshiba founded	1993	First realtime CT fluoro	2005	First 5-axis C-arm cath lab
1915	First X-ray tube	1998	First quiet MRI	2007	First dynamic volume CT scanner
1973	First realtime ultrasound scanner	2000	First all-digital multipurpose X-ray	2009	First premium handcarried ultrasound system
1989	First helical CT scanner	2003	First 64-slice CT scanner	2012	First Spot Fluoroscopy
1990	First tissue Doppler imaging system	2003	First compact dual-plane cath lab	2013	First realtime dose tracking system


How to Use the medicalAR App

Images with the  icon can be viewed in motion.
Download the app by scanning the QR code or visit our website:
<http://www.toshibamedicalsystems.com/tmd/english/guide/medicar.html>



1. Launch the apps and start AR Camera.



2. Scan the whole page, including an image with the  icon.



3. When the trigger image is captured, the linked contents will be displayed.

TOSHIBA MEDICAL SYSTEMS CORPORATION

<http://www.toshibamedicalsystems.com>

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Printed in Japan

TOSHIBA
Leading Innovation >>>

*Infinix-i*TM
Hybrid cath and OR suites
A Comprehensive family of Interventional Systems



Infinix-i



Clinical Freedom

Clinical Staff can easily access the patient. Flexible design, optimized angulation focused on patient comfort.

4



Image Quality

Toshiba's philosophy on image quality is what you can see is critically important for making the safest clinical decisions for the patient.

14



Clinical Applications

Advanced clinical applications increase clinical confidence by aiding in the navigation and deployment of devices in complex anatomy.

18



Optimized Workflow

Toshiba's innovative sequential navigation and multi-tasking capabilities improves clinical efficiency, resulting in increased productivity.

22



Patient Safety

Our 360 degree focus on patient safety, allows you to focus on the life-saving interventional procedures.

26



Dose Reduction

Our innovative one touch dose controls allow clinicians to significantly reduce radiation exposure to their patients, staff.

28



Connectivity

Our flexible design encompasses network standards facilitating easy integration into your hospital network.

34



Customizing a Hybrid lab is easier when you partner with the right consultant

There's a lot more to creating a hybrid lab than installing a vascular lab in an operating room. In most cases, implementing a hybrid suite or operating room is the most complicated build a hospital will undertake. Doing so requires the involvement of multiple specialties, their particular unique needs, and equipment and room requirements, with all of these variables taken together.

To guide you in implementing the very best hybrid solution to improve patient care, we draw on our extensive innovation and leadership in creating the systems that make hybrids possible.

* MAGNUS 1180 is a trademarked product of MAQUET



Select the optimal lab for your clinical needs.

Infinix-i interventional angiography systems are available for every clinical need. With its strong feature set, the Infinix-i platform provides outstanding clinical performance for all types of diagnostic and interventional imaging, and supports both hybrid and surgical procedures.

Complementing this performance, Toshiba further addresses specific clinical needs by offering multi-access C-arms with flat panel detectors in three different sizes.

The overall selection and flexible performance will enhance any imaging department's workflow and patient care.

Detector size choices

Infinix-i interventional angiography systems are available with a range of flat panel detector sizes to suit your coverage needs.



Best-in-class compact housing of the detector



Compact detector with maximum field size of 20 cm x 20 cm

20 cm x 20 cm (8" x 8")



Medium-size detector with maximum field size of 30 cm x 30 cm

30 cm x 30 cm (12" x 12")



Large detector with maximum field size of 30 cm x 40 cm

30 cm x 40 cm (12" x 16")



Hybrid Cath-Lab suite



INFX-8000V

FLOOR-MOUNTED MULTI-ACCESS SINGLE-PLANE SYSTEM

Providing superior patient access other systems cannot match, the 5 axis floor-mounted C-arm is ideally suited for a wide range of applications.



TOSHIBA cradle table



INFX-8000C

CEILING-MOUNTED SYSTEM

Unique dual-track ceiling-mounted C-arm offers unparalleled motorized longitudinal and lateral coverage to support upper extremity examinations.



INFX-8000V

MULTI-ACCESS BIPLANE SYSTEM

With the exceptional flexibility of a floor- and ceiling-mounted C-arm combination, the biplane system is an ideal choice for vascular and neuro diagnostic and interventional procedures.

Hybrid OR suite



MAGNUS 1180



INFX-8000H

CEILING-MOUNTED & INTEGRATED WITH HYBRID OR

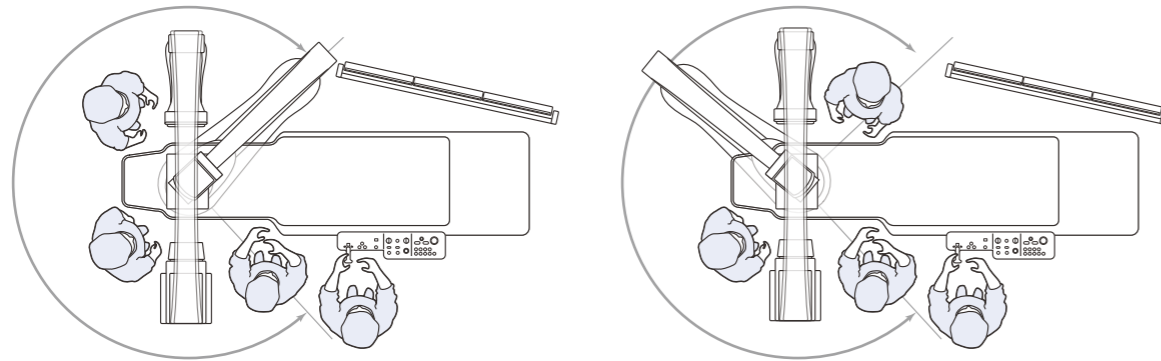
This is a dual-track ceiling-suspended C-arm system dedicated for use with an operating table.

Excellent patient access with exclusive multi-access C-arm



Providing an unprecedented range of patient access and coverage for clinicians, our exclusive 5-axis floor-mounted C-arm design has received industry awards for innovation.

- **2008 Frost & Sullivan Award**
North American Cardiovascular Imaging Healthcare Innovation
- **2007 Frost & Sullivan Award**
Technology Innovation for the Infinix CF-i/BP (Model name Infinix-i INFX-8000V)



The 5-axis design of Infinix-i biplane systems allows flexible positioning of the C-arm. This provides 180-degree head-end access or alternative positioning to best accommodate the physician, ancillary equipment and clinical staff.

// Currently, Toshiba is the only manufacturer to offer a system that can be maneuvered in all angles, supporting the ability to do cardiac and peripheral work. Toshiba's significant contribution to the medical imaging market with its innovative first-to-market 5-axis Infinix-i system ensures the ability to meet the needs of the cardiac population while staying abreast of the surging hybrid market. //

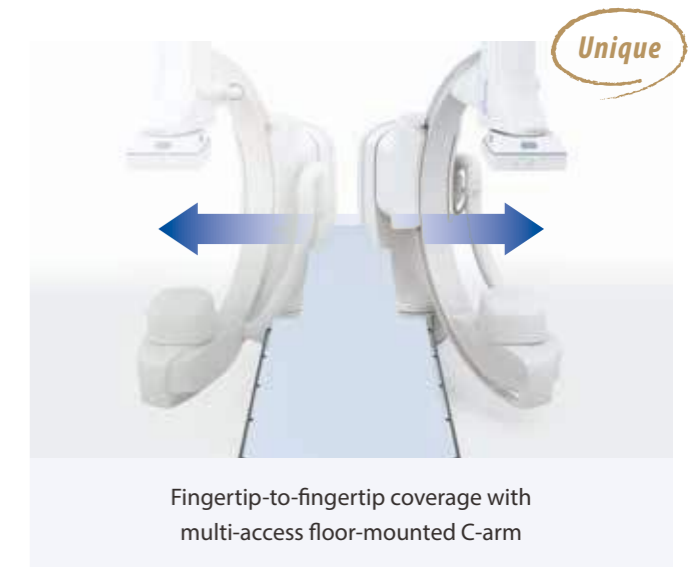
Frost & Sullivan Award Statement 2007

Unique movement and anatomical coverage

Hybrid procedures have attracted strong interest in recent years.

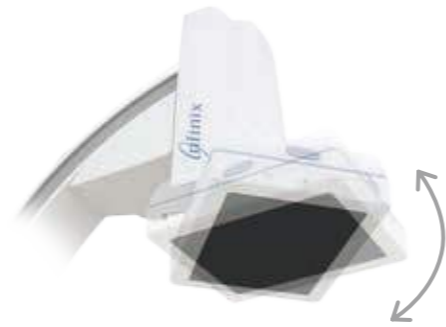
In hybrid procedures, a variety of equipment is used, including anesthetic machines. In addition, in therapeutic treatment performed under general anesthesia, access to the patient is limited.

With the Infinix-i, longitudinal and lateral movements of the cutting-edge 5-axis C-arm allow the required exposure field to be obtained without moving the operating table. This is useful for patients treated under general anesthesia.



Fast, easy flat panel positioning

The flat panel detectors and the beam limiting devices mounted to the frontal and lateral systems are automatically rotated so that images are always displayed with the head end at the top of the monitor.



Biplane-independent isocenter

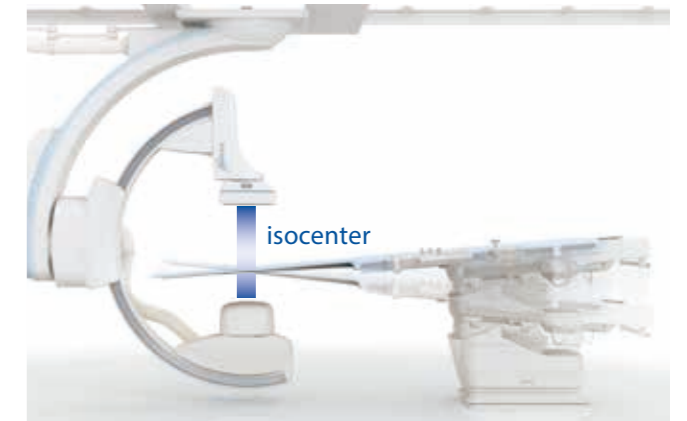
The unique ability to independently position the ceiling-mounted lateral FPD and X-ray tube at the isocenter allows the table to stay at one height during shunt examinations, keeping the patient's blood pressure as stable as possible during these critical procedures.



Unique movement of our tilting table

Longitudinal tilting of the table is possible without changing the tabletop height relative to the X-ray exposure axis. This is useful when table tilting is required while maintaining the ROI within the field angle.

When table lateral movement is required with the table laterally tilted, it is possible to perform table lateral movement without changing the tabletop height. (For an operating table that performs lateral movement in the axis parallel to the tabletop, positioning must be performed again, as the tabletop height changes when table lateral movement is performed).



Flexible C-arm gives you more space to work with

The C-arm can access the patient from oblique positions. It supports various equipment layouts and clinician positions that differ for each procedure, ensuring that sufficient working space is available.

Rotation of the flat panel detector and the beam limiting device is automated so that images are always provided in the head-to-foot direction.*

*When FPD12 or FPD1216 is used



The C-arm can be located on both the left and right of the patient by ceiling rotation.

Fast movement and large angle range

The extreme angles required in angiography are supported. C-arm rotation speed in normal operation is 30°/s, providing smooth operation for examinations.



CRA45°



CAU45°

INFX-8000H integrated with MAGNUS. Flexibility to versatile operation.

Integrated operation with the MAGNUS 1180 is available. Auto positioning and positioner information (such as collision interference) is performed, providing safe and efficient operation.

Touch sensor

When the touch sensor is actuated, MAGNUS table operation is locked.



Auto positioning

For efficient operation, up to 64 position types can be set for each study protocol.

- C-arm
- Compensation filters
- SID
- Tabletop height



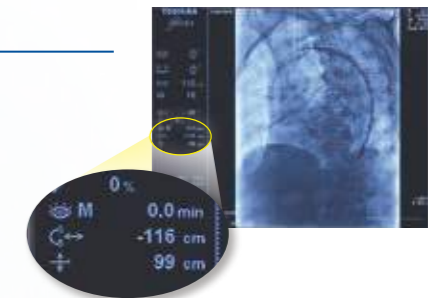
Interference control

Interference control functions for tabletop tilting as well as C-arm movement (when the carbon tabletop is used).



Information display

The height information of the MAGNUS table can be displayed on the fluoroscopic monitor in the same manner as for the catheterization table.




Operation from Toshiba console

Vertical movement of MAGNUS table is possible from the Toshiba angiography system consoles.



Emergency switch

When the emergency stop switch is actuated, MAGNUS table operation is locked.

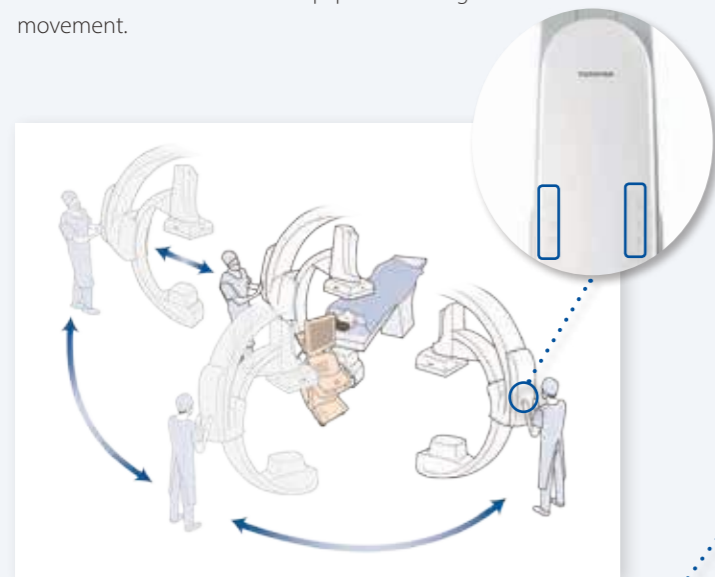
Images with the  icon can be viewed in motion. Please refer to the back cover for further details.

We offer an optimized and comfortable OR Environment

We start by identifying your needs with a comprehensive review of our system in order to create a customized hybrid solution to meet your specific needs. Our many years of experience in imaging, research, and intervention place us at the forefront of hybrid technology development. We can help you install exactly the right hybrid configuration.

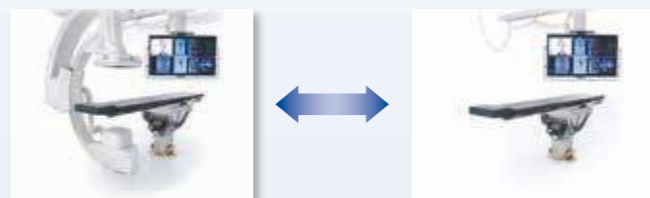
Parking C-arm

C-arm longitudinal movement, lateral movement, and support column rotation can be performed using the local operating switches on the rear of the C-arm, allowing the operator to check for contact with other equipment during arm movement.



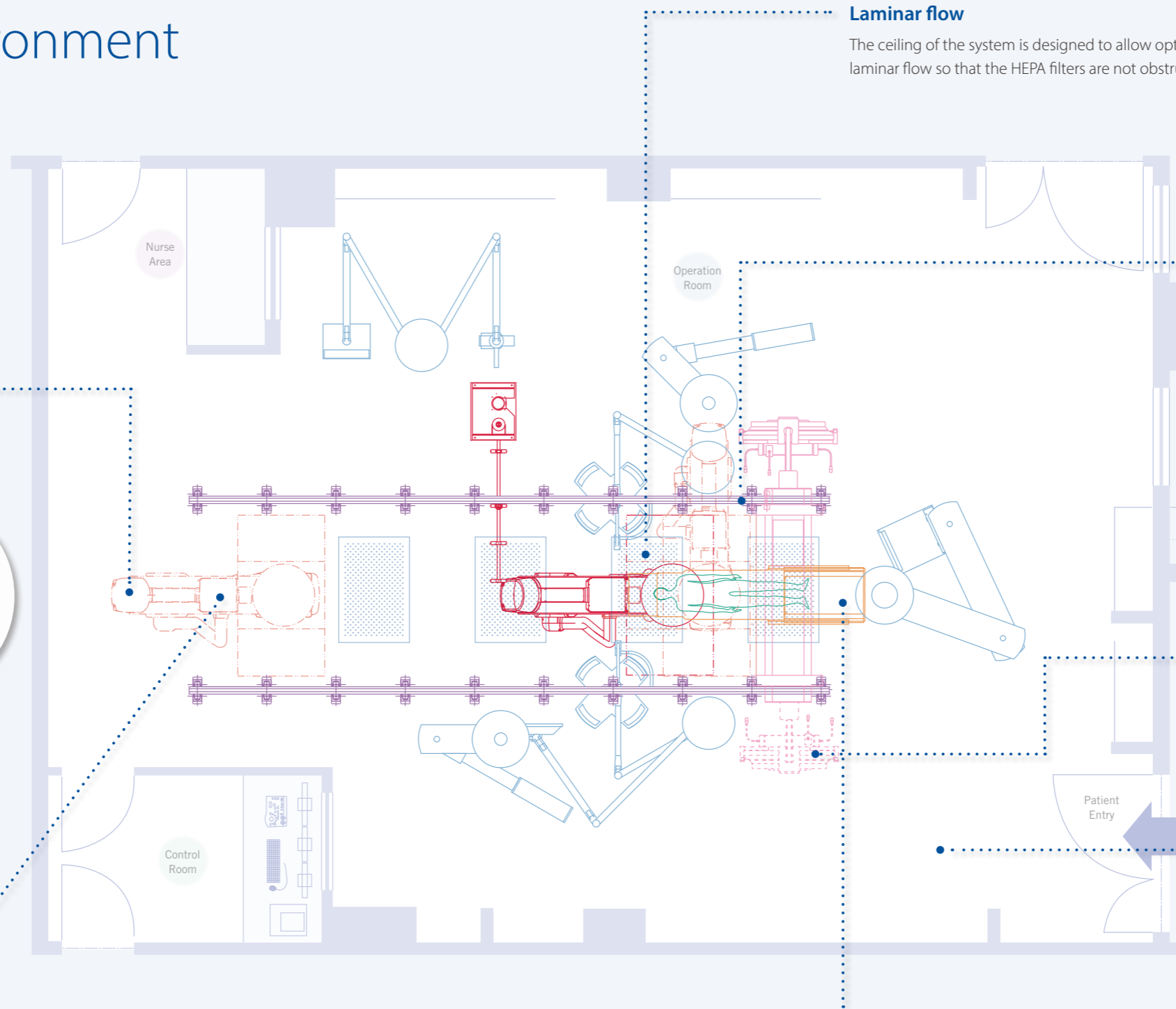
Easy switching between cath lab and OR

With the C-arm set in the park position, there is equivalent clearance around the operating table to that available in a general operating room.



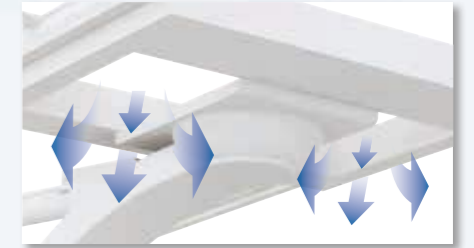
Easy Exchange of OR Table

The carbon operating tabletop can be changed to a universal operating tabletop for general purpose use. The appropriate tabletop can be selected according to the procedure.



Laminar flow

The ceiling of the system is designed to allow optimal laminar flow so that the HEPA filters are not obstructed.



Wide rail intervals

Our Infinix-i hybrid OR system uses widely spaced rails for a cleaner operating environment (clearance around HEPA filters etc).



Flexible monitor positioning

Toshiba's monitor suspension is mounted on the same ceiling rails as the systems, and monitors can be moved to either side, according to the preference of the viewer.

Compact installation

As the required installation area is small, our hybrid system can be installed even in very limited spaces, providing total coverage for patients.



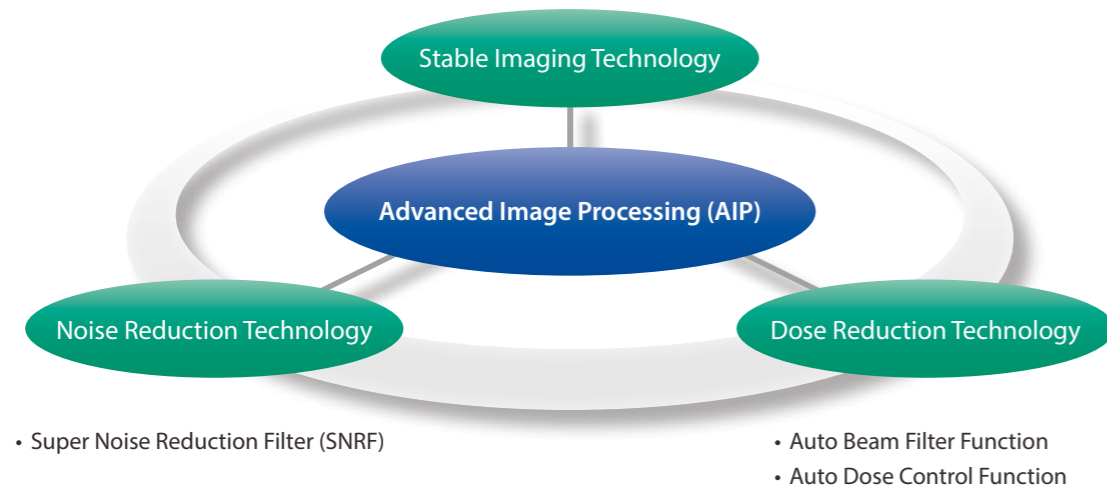
Enhance diagnosis and treatment with exceptional image quality

Toshiba Imaging technologies can help make critical decisions easier and Interventions safer, faster with increased accuracy.

Advanced Image Processing (AIP) provides outstanding image quality for visualization of vessels and devices



- Digital Pattern Recognition Filter (DPRF)
- Advanced Digital Compensation Filter (ADCF)



The use of Toshiba's unique Advanced Image Processing produces images of unparalleled clarity. ADCF is a background processing technique useful for reducing halation in the lung fields and for correcting dark areas such as the mediastinum. DPRF enhances the contrast of devices and blood vessels, and at the same time recognizes all other areas as noise, reducing the amplitude of signals from these areas. SNRF significantly reduces image noise in 14-bit grayscale images without requiring the X-ray dose to be increased. It achieves this by recognizing and reducing noise components in each individual image frame.



Realtime image processing with AIP

Flat Panel Detector (FPD)

Original image obtained by the FPD

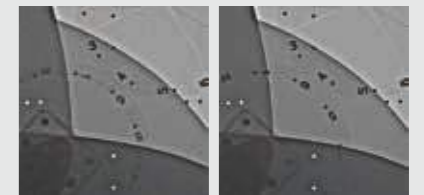
The FPD has high-quality MTF and a wide dynamic range. It can provide 14-bit gradation data regardless of body thickness. However, due to image noise and the limitations of the dynamic range of the monitor, acceptable image quality cannot be achieved simply by using original data obtained by the FPD.



Super Noise Reduction Filter (SNRF)*

SNRF recognizes and reduces only the noise in each frame of the 14-bit gradation image, making it possible to significantly reduce image noise without increasing the X-ray dose. Since a recursive filter is not used, persistence can be eliminated and sharp images can be obtained even in regions with rapid movement.

Comparison using a rotating phantom

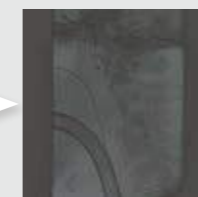


Conventional processing (with recursive filter)

SNRF

[Digital Pattern Recognition Filter (DPRF)]

High-frequency image (signal)



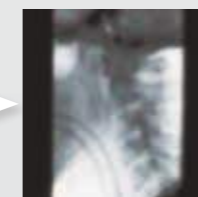
Signal intensity



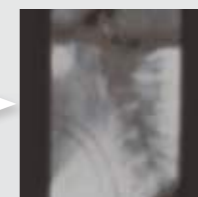
DPRF recognizes the pattern of the blood vessels and devices in the high-frequency image depicted in ADCF processing and performs optimal intensity processing. As a result, visualization of the signal components is effectively improved.

[Advanced Digital Compensation Filter (ADCF)]

Low-frequency image



Background compression



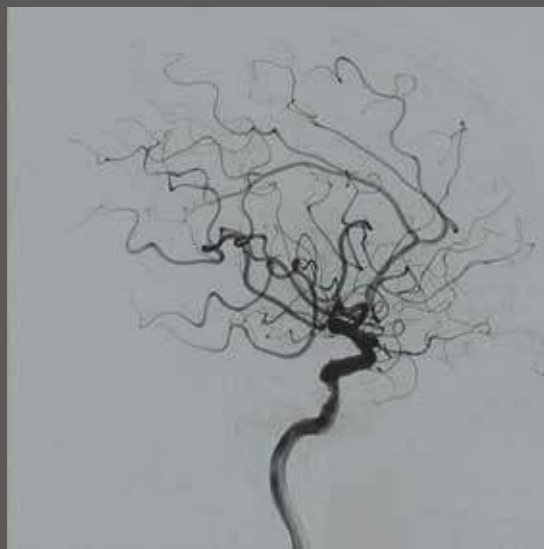
ADCF separately recognizes high-frequency components such as blood vessels or devices and low-frequency components such as background. Density in low-frequency components is compressed, achieving stable background image quality regardless of body thickness.

Monitor



See more with Advanced Image Processing (AIP) technologies

Cerebral Angiography



Cerebral LAO (DSA)



Cerebral AP (DSA)

Congenital Heart Disease



Bilateral Pulmonary stent placement



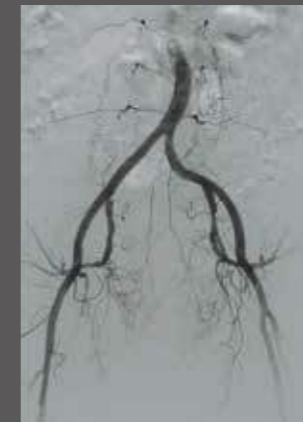
Pulmonary valve replacement

Peripheral artery (Leg)



Peripheral Leg bolus chase image. The visibility of vessels that are superimposed over the bones are enhanced.

Abdominal Angiography



Bilateral Iliac Acquisition (DSA)



Celiac artery (DSA), brightness-adjusted (DSA)

Fistulogram



AAA stenting



Angiogram of AAA endoluminal stent graft (DSA).

Realtime roadmap display provides an accurate and anatomical reference.

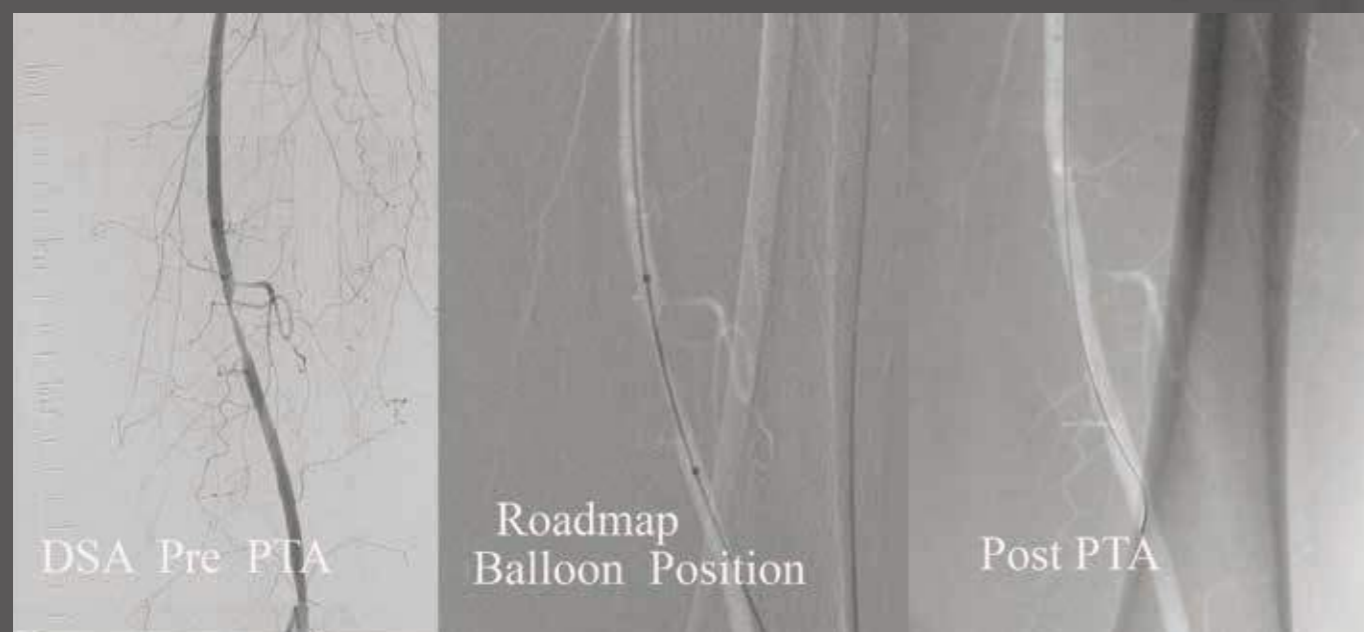


Enhance diagnosis and treatment with outstanding imaging capability

With its comprehensive positioning and image review capabilities, Infinix-i accommodates a wide range of procedures.

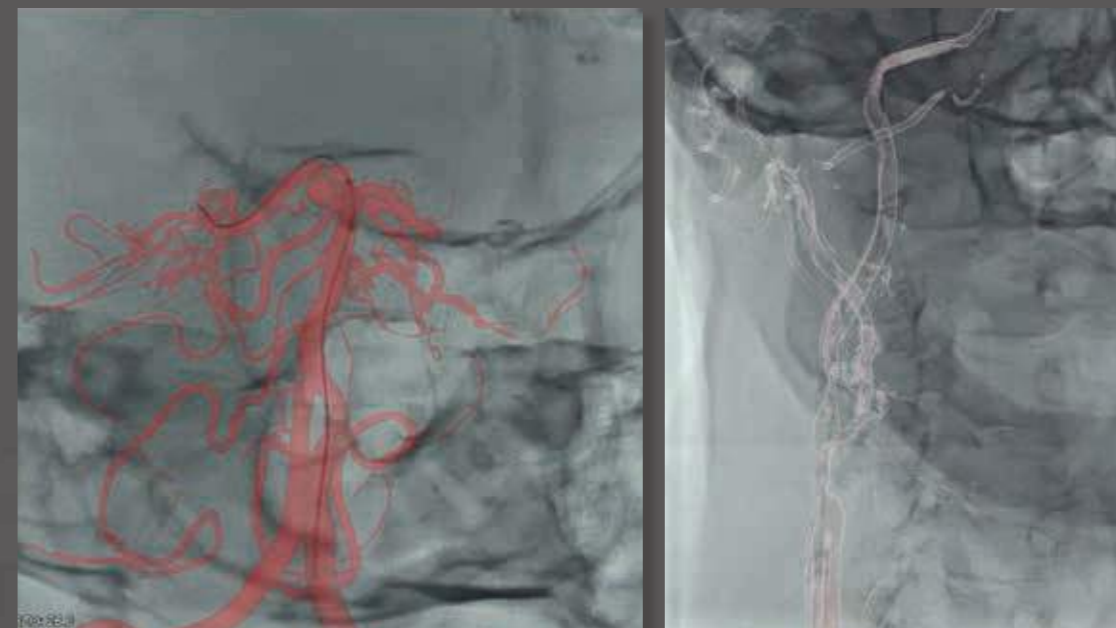
Advanced conventional and 3D imaging technologies provide unprecedented imaging with unique tools to enhance both diagnostic and interventional procedures. These powerful imaging and processing tools enhance the clinician's overall treatment planning capabilities.

Guide View provides a clinical roadmap



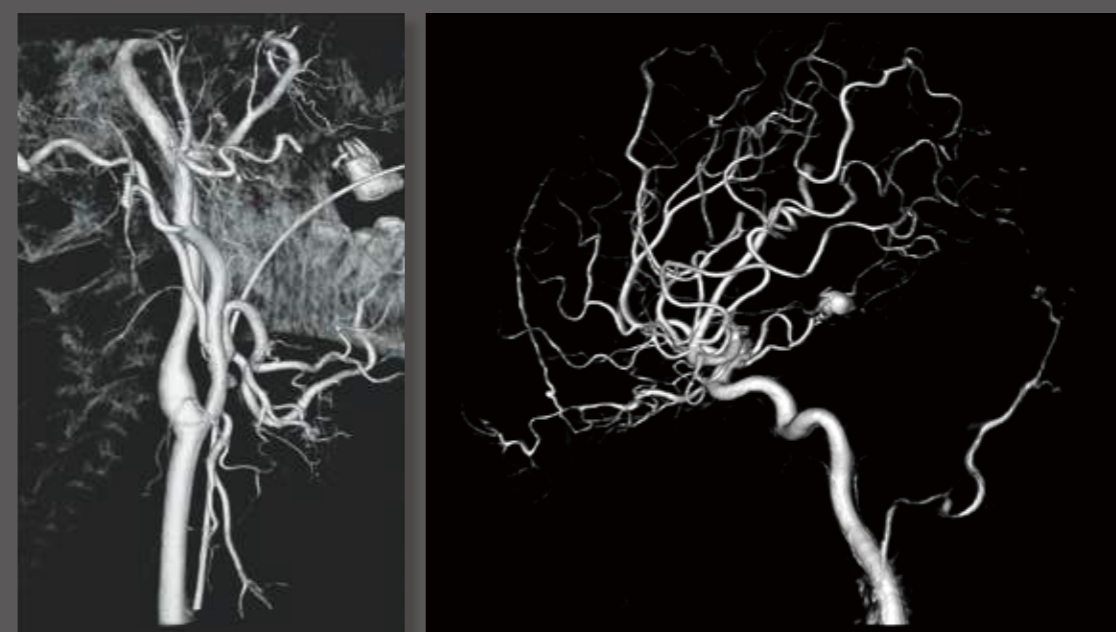
Toshiba's Guide View provides a superimposed roadmap over live fluoroscopy images, facilitating accurate device placement within a targeted vascular anatomy.

3D Roadmap (option)



All system movements are linked with fusion 3D and fluoroscopic display. This reduces the risks associated with repeat 3D acquisitions during the procedure, ensuring safer interventions and more confident decision-making during difficult situations.

3D Imaging (option)



The combination of Infinix-i high-resolution flat panel detectors, flexible C-arm positioning and powerful Volume Imaging provides detailed anatomical 3D reconstructions and 3D image display for enhanced diagnosis and interventional planning.

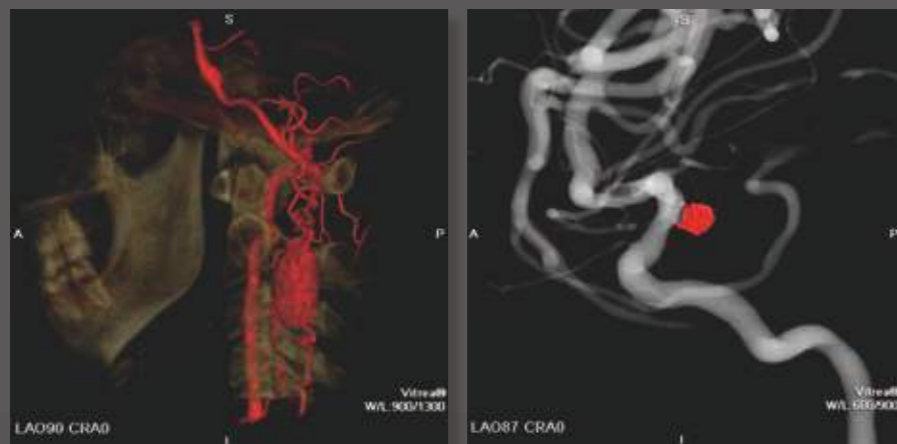
Ensure or Insure accuracy with outstanding navigation options

Low Contrast Imaging (option)



To supplement 3D imaging, CT-like imaging is available to support target visualization of anatomy or pathology during interventional procedures. Infinix-i systems utilize Low Contrast Imaging to provide a well-visualized view of three overlapping carotid/cerebral stents of varying radiopacity.

Fusion Imaging (option)



High-speed acquisition generates conventional 3D reconstructions and unique display capabilities such as Device Fusion, which clearly differentiates devices from vessels. Bone Fusion technology is also available, allowing simultaneous display of vessels and body landmarks.

Multi-Modality Fusion (option)



Toshiba's 3D fusion technology enables 3D volume data to be superimposed on the Live fluoro display. You can select from a C-arm acquired 3D data set or from CT or MR data to be fused. This capability saves on IA/IV contrast loading on the patient, as well as dose and time.

Valve Planning and Positioning Guidance (option)



Comprehensive valve planning software is available for pre-implantation valve analysis, allowing quick and intuitive analysis of the aortic valve for the best operative approach prior to TAVR*.

(*TAVR: Transcatheter Aortic Valve Replacement)

Examples of screen shots for valve planning (left) and valve positioning (right).

Needle Guide (option)



From the 3D dataset, a Low Contrast Image (LCI) MultiPlanar Reconstruction can be generated.

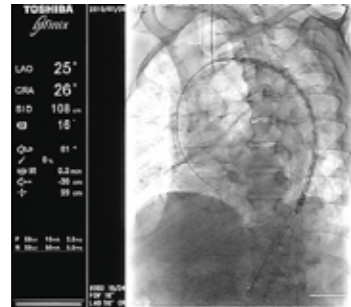
This CT-like LCI dataset can be manipulated to plan the best skin entry point, needle path, and angle of approach to the targeted anatomy. An associated 3D volume is generated automatically with needle tracking data, which then can be overlaid on the realtime fluoroscopy image.

With its integrated functionality, this application allows needle-based interventions such as needle biopsy, percutaneous vertebroplasty, drainage, and RF ablation procedures to be performed more intuitively.

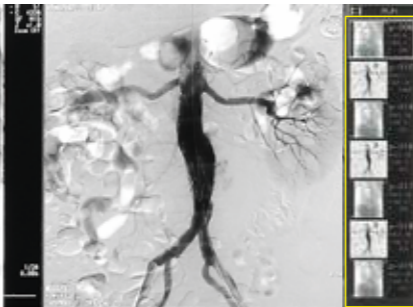


Improved efficiency with greater confidence

Live images



Reference images



Representative reference images can be displayed on the reference monitor as thumbnails. Images can easily be selected using the mouse or tableside.



Tableside controls

The Hyper Handle is a compact table side control unit that supports system operation and functions while minimizing ergonomic stress. It has an intuitive design with easily distinguished buttons and controls.

The Clinician can easily drive the system by touch allowing them to remain focused on the patient and the procedure.

To further boost productivity, Infinix-i can be customized for a number of operators. Settings such as sequential navigation, rotational imaging, and more can be stored, reducing the amount of contrast and radiation dose, enhancing procedures for the clinical staff and patients.

C-Arm Controls

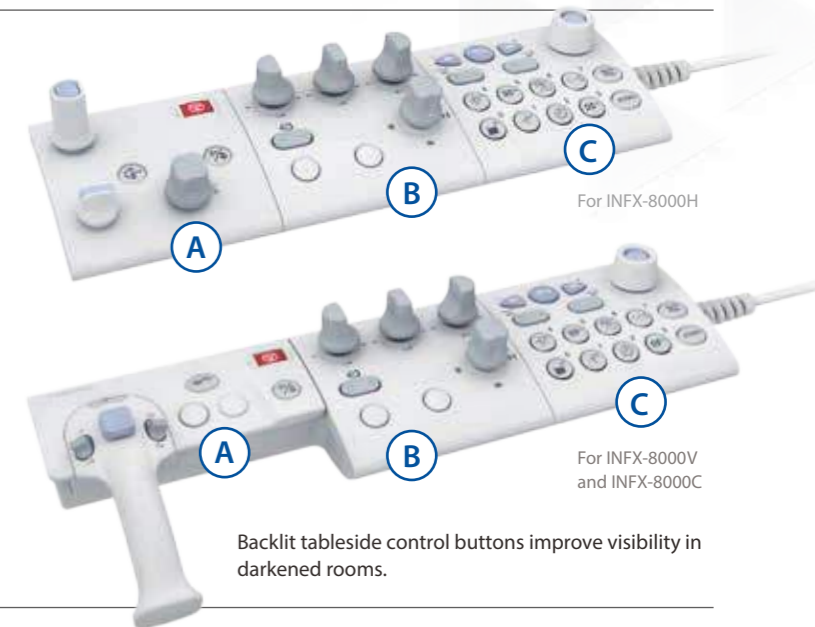
- A** One-handed operation allows the operator to raise and lower the table, position the C-arm and detector, and pan the table.

Collimator Controls

- B** Allows for changing field of view and collimation (virtual collimation and filtration).

Digital Controls

- C** Programmable keys allow customized settings, one-touch dose saving features, replay of acquired images, and operation of the customized menu.



Backlit tableside control buttons improve visibility in darkened rooms.

"Volume View"

Expand your clinical viewing possibilities with a large monitor solution (option)

The customizable high resolution 58" display area allows the operator to select and view the relevant clinical data in a wide variety of sizes and patterns.



Common viewing formats can be changed with the touch of a button on the conveniently located screen control.



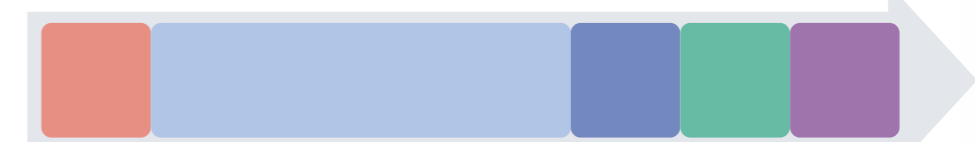
Parallel processing with "Sequential Navigation"

Simultaneously process and transferring image data during acquisition yields quick, efficient examinations.

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.

Process more patients in less time

For One Procedure



Other models



Infinix-i



*parallel & background processing

*patient registration
*retrieve archived images

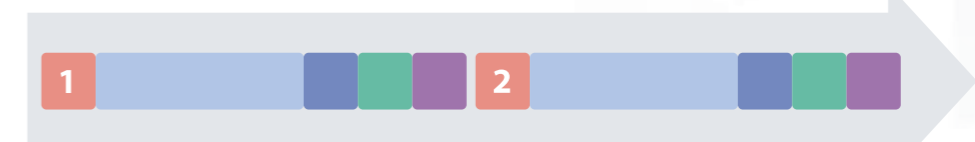
*fluoroscopy & radiography
*playback & display

*filming & analysis

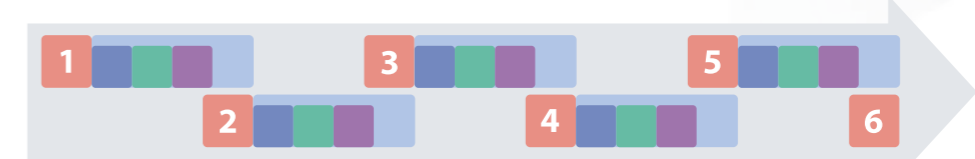
*image storage

*HIS/RIS feedback

For One Lab



Other models



Infinix-i

“ The Infinix-i provides full multitasking capability without compromise. Complete management of image archiving, including the burning of images to CD or DVD, can be maintained in parallel at any time. The combined impact of these capabilities contributes to a major improvement in workflow. These functions are fully integrated into a very advanced but simple-to-use system which is linked to the Sequential Navigation user interface. This unique design is the heart of the system. ”

Christopher BAKER, MD – PhD (Consultant Cardiologist)
Hammersmith, NHS trust
London, United Kingdom



Focus on the Procedure

Pulsed fluoroscopy setting in narrow steps provides high image quality at lower exposure dose

Patient exposure dose and exposure for medical staff are always a concern in prolonged examinations or treatment. In Infinix-i systems, the pulsed fluoroscopy rate can be set in narrow increments (30, 20, 15, 10, 7.5, 5, 3, 2, and 1 pps), allowing the exposure dose to be minimized. For fluoroscopy that does not require a high fluoroscopic rate, or fluoroscopy for pediatric patients or pregnant patients, the minimum exposure dose can be delivered, resulting in reduced exposure for the patient and medical staff.

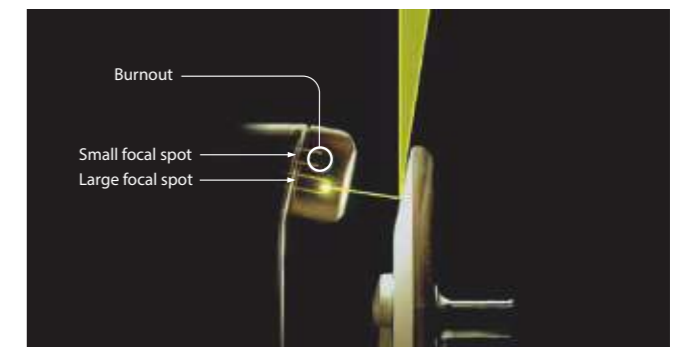
Large-capacity X-ray tube assembly assists interventional procedures

An X-ray tube assembly with a large anode heat capacity (3 MHU) is used. Even in fluoroscopy or radiography in cutting-edge therapeutic procedures in which the X-ray tube is subject to heavy loads, overheating of the X-ray tube can be avoided, improving system reliability. In addition, a liquid metal bearing structure is employed, extending the service life of the X-ray tube assembly. Less waiting time, lower noise during operation, and stress-free angiography operation are achieved.



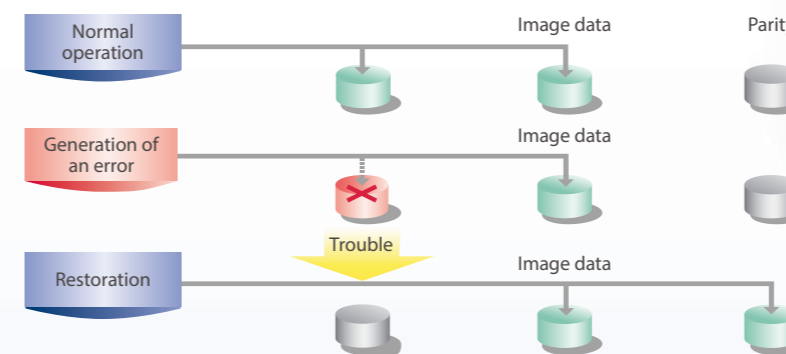
One-touch focus switching for backup

If one of the three focus filaments is disconnected, it is possible to switch to either of the remaining filaments in order to continue performing fluoroscopy/radiography and terminate the examination safely. Backup in case of unexpected disconnection of the filament improves the reliability of examinations.



Highly reliable RAID data storage

For data storage, an advanced RAID system is employed, in which acquired images are saved to multiple magnetic disks. The system enables large volumes of data to be stored and processed. In the case of disk failure, data can be restored in real time.





Minimize the exposure dose with Toshiba's unique dose reduction technology.

The advantages of FPD technology are well recognized: better image quality, distortion-free imaging, high contrast and resolution, wide dynamic range, and lower exposure doses. In addition to these benefits, Toshiba has redesigned its imaging platform with next-generation AIP (Advanced Image Processing) and noise reduction technology. Toshiba includes many dose-reduction features in standard system configurations.

X-ray beam filter

Toshiba's beam filtration can dramatically reduce patient dose and scatter radiation. Beam filtration can be automatically switched according to the imaging conditions.

Removable grid

A removable grid is included in the standard configuration, and is easily removed by means of a single button. This can reduce dose by as much as 24% in low-scatter conditions for pediatric applications.



Electronic zoom

Electronic zoom digitally enlarges images in real time without increasing the dose. This eliminates the need to use smaller fields of view on the detector for magnification purposes (which would increase the required dose). Using the electronic zoom, dose can be reduced by more than 30%.



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

Variable dose mode

With the touch of a tableside button, the operator can choose from four pre-programmed fluoroscopy modes. Various study protocols can be optimized through different combinations of pulse rate, dose level, and image processing parameters.

Virtual collimation and filtration

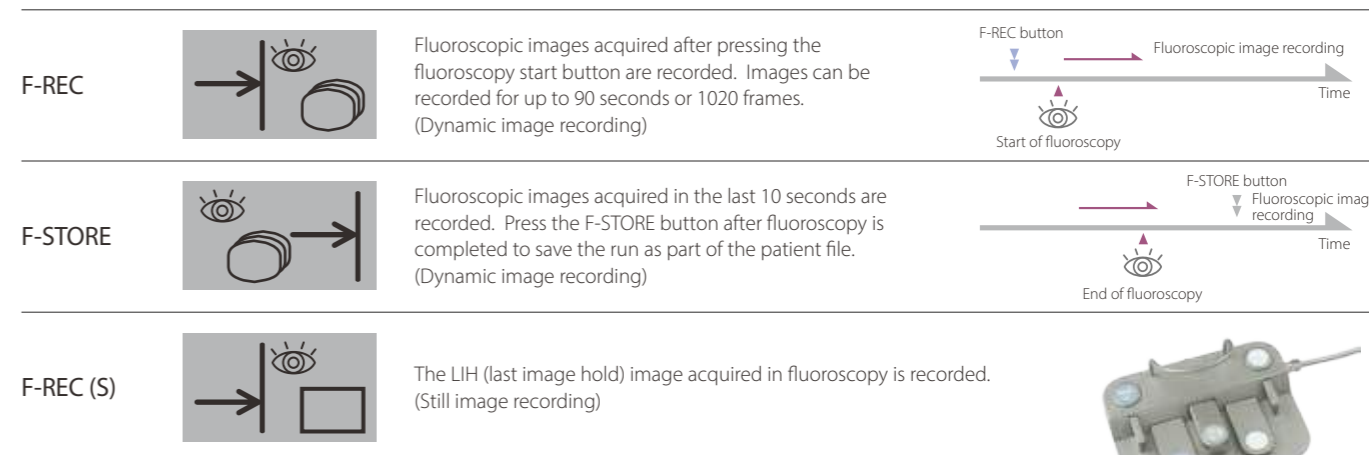
After fluoroscopy, virtual collimation uses software to simulate collimator and beam filter positions. This allows operators to adjust collimation without additional fluoroscopy, further reducing the exposure dose.



Fluoroscopic acquisition

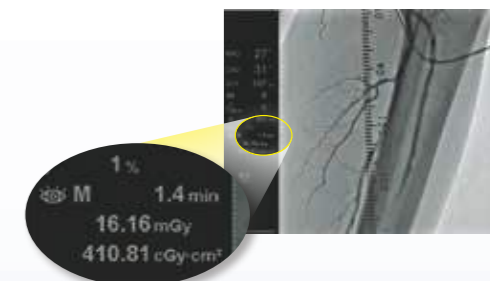


The operator can capture still and dynamic images using the footswitch for future reference during fluoroscopy. These archived images are an alternative to fluorography, resulting in a substantially reduced exposure dose.



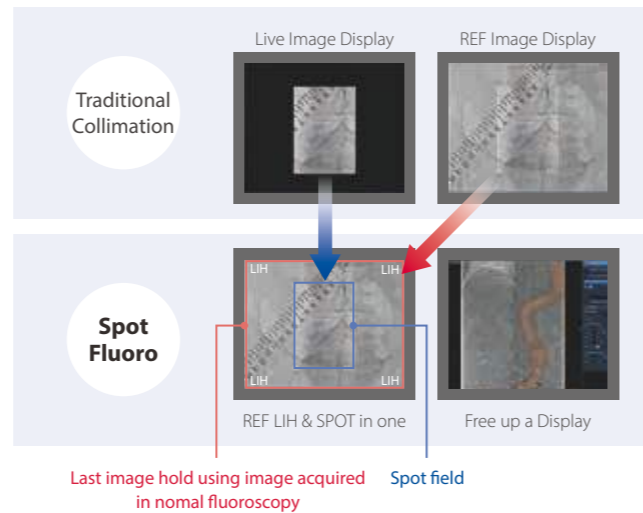
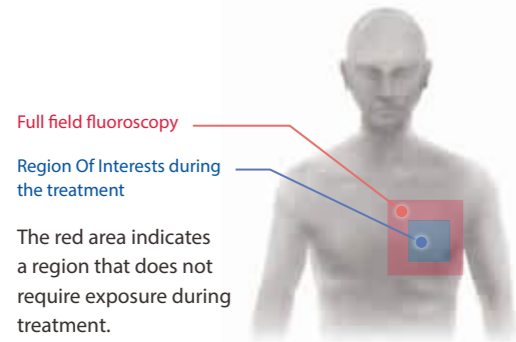
Dose display

The exposure dose can be monitored in real time. The operator can observe dose levels on a digital display in the examination and control rooms.



Reduce the radiation dose with exclusive Toshiba features

Spot Fluoroscopy (option)



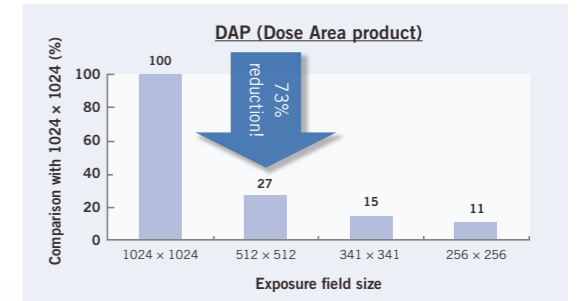
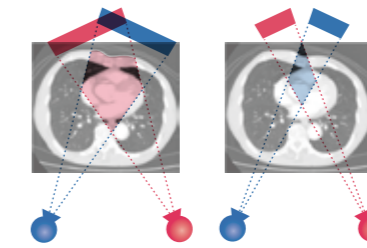
Conventional X-ray collimation has two disadvantages: black areas caused by the collimator blades are distracting for the interventionalist, and there is an increased exposure dose for the patient because the system compensates for the reduction of scatter radiation due to collimation in the ABC Region of Interest (ROI). To eliminate these issues, Toshiba has developed the industry's first "Spot Fluoroscopy" technology. During Spot Fluoroscopy, the last image acquired in normal fluoroscopy continues to be displayed around the ROI for reference while only the spot field itself is exposed to X-rays.

Spot Fluoroscopy enables clinicians to select three different ROIs or to freely decide the position and the size of the ROI anywhere over the LIH by operation of the tableside console and the footswitch. This improves procedure efficiency, collective image information, and reduces the dose. A series of experiments were performed using a 20 cm acrylic phantom, with the following results.

Benefit. Reduction of DAP by Spot Fluoroscopy

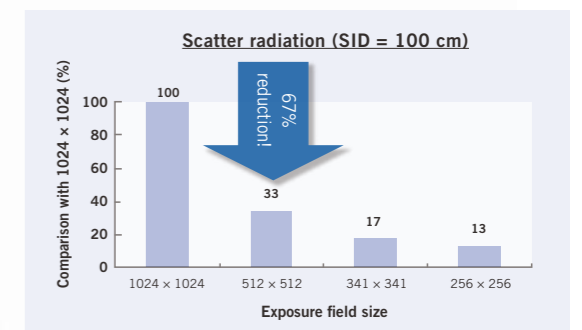
The cumulative DAPs (dose area products) measured on the three selectable live fluoroscopy ROI sizes are shown in the graph on the right (where this is defined as the patient exposure dose). Compared to normal-field fluoroscopy, Spot Fluoroscopy can reduce the dose by more than 50%, significantly decreasing the risk to the patient.

The illustration on the right shows an additional benefit. Spot Fluoroscopy can greatly reduce the overlap between each exposure, saving the patient from unnecessary exposure when different angles are required.



Benefit. Reduction of scatter radiation for the patient, clinician, and staff.

More than 50% reduction of scatter radiation is realized by Spot Fluoroscopy, as shown in the graph on the right, which is beneficial for the clinician and staff as well as the patient. As these figures show, Toshiba's exclusive Spot Fluoroscopy minimizes unnecessary exposure and reduces the radiation burden on the patient and clinical staff in the examination room.



DTS (Dose Tracking System)

Enhance your dose awareness

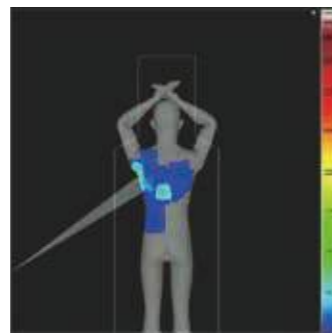
Dose Tracking System (DTS) is a dose awareness tool that provides estimated dose information for the patient's body surface in real-time. It supports selective catheter angiography for heart, chest and abdomen.

The software calculates the peak skin dose at the patient model surface based on the actual measurement dose at the interventional reference point.

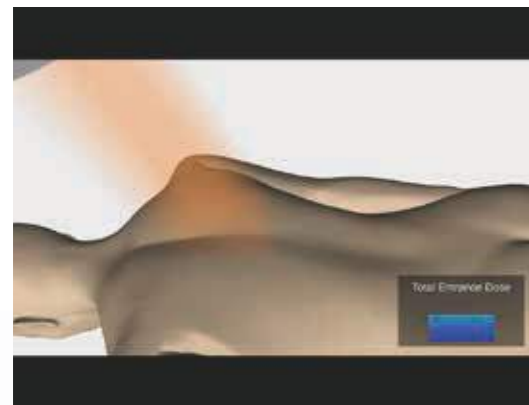
The exposure dose information on the patient surface is displayed, as well as the study information and the patient information. The X-ray direction and radiation area is linked to the real C-Arm projection and updated in real-time. This data can be used as reference information to prepare for the next exposure, so that regions showing high exposure dose are excluded from the exposure range.



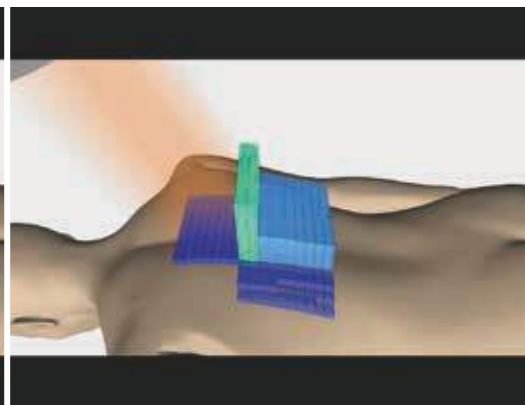
Multiple 3D patient models are defined in advance and a patient model is selected for each study.



DTS makes it possible to show maximum accumulated skin dose on the patient body and peak skin dose in the field of view in real time.



Standard System



DTS

Systems are generally required to show the total entrance dose, which doesn't mean how much X-ray exposure is made on the respective portion. DTS can display the cumulative entrance skin dose to the respective portion of the patient with color segmentation in real time.



Reverse geometry of the ceiling-suspended Ω -arm (biplane systems)

In the biplane system, the ceiling-suspended Ω -arm can perform left/right inversion. This is a unique Toshiba feature which allows the operator to avoid exposure to scatter radiation from the patient. Both positions can be registered to the autopositioning function. The clinician can position the X-ray source on either side of the patient with a simple tableside operation.



Lateral and vertical stroke capabilities (biplane systems)

Unique

In addition to reverse geometry, the Ω -arm has lateral and vertical stroke capabilities. The lateral stroke allows the X-ray-focus-to-patient distance to be changed to bring the detector as close to the patient as possible. The vertical stroke can adjust the detector position without the need to adjust the height of the patient, which can minimize unnecessary exposure risk and reduce patient dose by up to 17%.

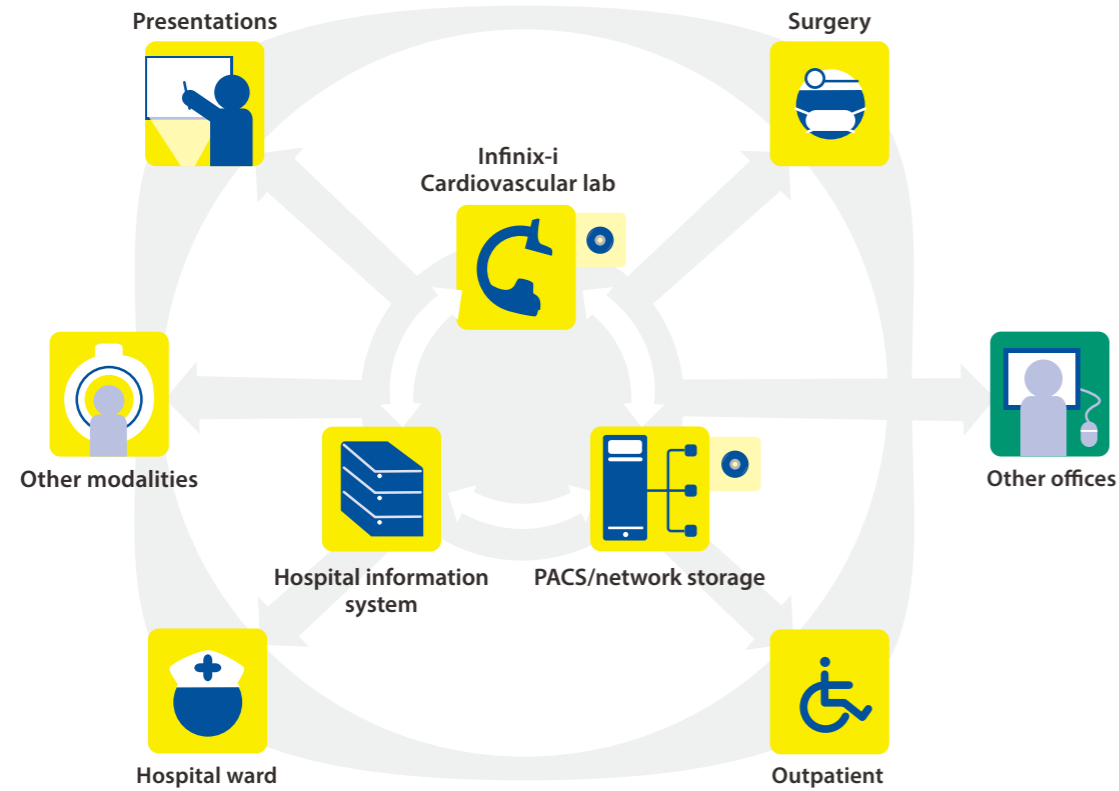




Access to patient information with seamless network integration

All Major DICOM Classes

The Infinix-i series comes with all major DICOM Service Classes as standard, 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.



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



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



DICOM CD-R/DVD±R:
These serve as long-term and portable storage media for valuable image data.

Access to previous data

Operators can easily enter and store patient registration information before a procedure. They can access the patient information database and retrieve previous studies from the archive for comparison with the current exam.

