

BRANSIST SAFIRE VF17

Floor-Mounted Vascular Package VF17

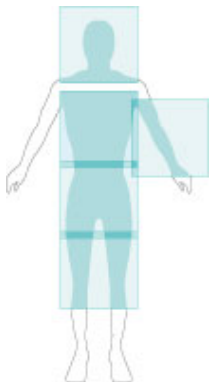


The BRANSIST safire VF17 floor-mounted vascular package is a digital angiography system that features a 17 x 17-inch direct-conversion FPD, the largest in its class. The system offers not only high image quality, but the optimal image quality for the various complex interventional procedures over the extensive field of views available. Through flexible system operation, fast digital image processing with due consideration given to patient comfort and the latest applications, the system provides an advanced facility for state-of-the-art medical centers.

Ultra-High Image Quality for Optimal Interventional Procedures

BRANSIST safire VF17 was developed for optimal support of interventional procedures with excellent visibility of fine blood vessels and devices over the entire field of view range. The high-performance flat-panel detector which is based on a revolutionary Direct-Conversion technology achieves enhanced visibility and easily visualizes even the smallest devices which are available today. The large-field-of-view 17 x 17 inch is the largest in its class.

Class—Leading 17-inch Wide Field of View Detector

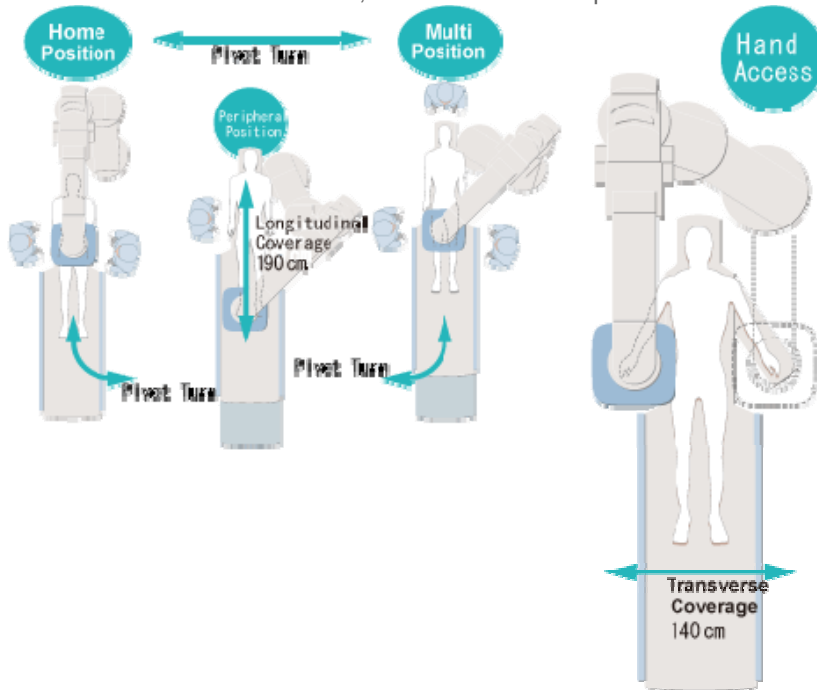


By utilizing a 17-inch FOV, a single image can cover the entire abdomen, thorax, or both legs, while also retaining fine resolution of the body part. By using a larger FOV, the system can reduce the number of contrast medium injections, fluoroscopy positioning operations, and relieve the patient burden during procedures.

Unique Triple-Pivot C-arm Design

In-Line C-arm Ensures Home Position

This is the position for normal examinations. The inline design layout of the C-arm permits easy access to the patient's feet from both sides of the table, with sufficient free space to install other medical equipment.



Safe Femoral Catheter Approach Multi Position

This is a useful position for femoral catheter approach. Good access is provided for nursing staff from the head-end making this position effective for the examination of children.

Safe Brachial and Radial Catheter Approach Hand Access

This is the first floor-mounted C-arm in the world to also offer transverse movement. Transverse coverage exceeding 140 cm permits both brachial and radial catheter approaches without moving the patient or rotating the table.

Wide Coverage with Patient Safety

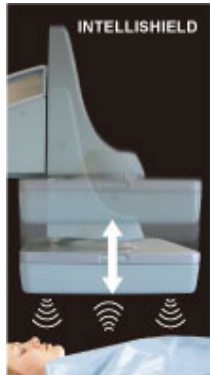
Although the BRANSIST safire is floor-mounted, it can perform examinations on all areas of the body thanks to the world's first triple-pivot design (3 axes), located at the base of the frontal arm. Transverse coverage is up to 140 cm so there is no need to move the patient or pivot the tabletop, even for catheter approaches or when imaging the wrist and arm. Positioning that allows approaches from the head are effective for cerebral examinations and for pediatric examinations.

Versatile Operation with due Consideration to Safety

BRANSIST safire VC17 features a tableside controller for all C-arm and image operations, offers the ability of switching between fluoroscopy and radiography protocols. This versatile controller offers the operator great ease-of-use.

INTELLISHIELD allows the FPD to detect the patient and automatically stop C-arm operation, allowing the operator to use the high-speed C-arm with complete confidence.

INTELLISHIELD Hybrid Sensor Enhances Patient Safety



INTELLISHIELD is a contact-avoidance function that uses capacitive sensors embedded around the FPD to automatically stop C-arm operation when the patient is detected. In addition, a touch-type safety sensor is provided at the center of the FPD where detection is difficult. These duplicate safety mechanisms allow the operator to use the high-speed C-arm with complete confidence.

IVR-Support Applications

Efficient Patient-Friendly RSM-DSA Chasing



RSA-DSA Lower Extremity Tracking (displays a moving image)

RSM-DSA Chasing is a new application with a multitude of patient benefits since it greatly reduces the amount of contrast medium required, patient does not need to be strapped down, flexible framing is performed in conjunction with contrast medium flow, and patient radiation dose is reduced since a mask run is not required.

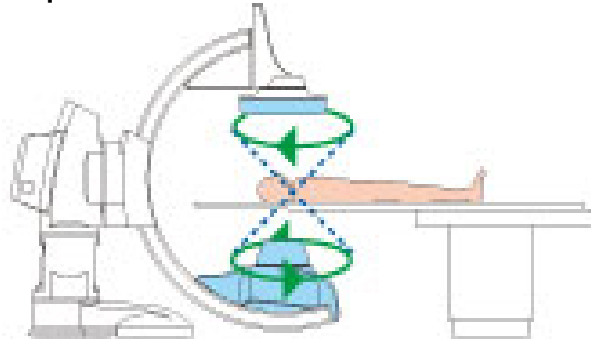
Supporting Operations and Interventions

Useful for preoperative therapy planning and postoperative result judgements, RSM-DSA provides 3D-like detailed information of complex blood vessels and identifies nutrient vessels.

Breath Holding Not Required with RSM-DSA



Pendulum mode



Precession mode

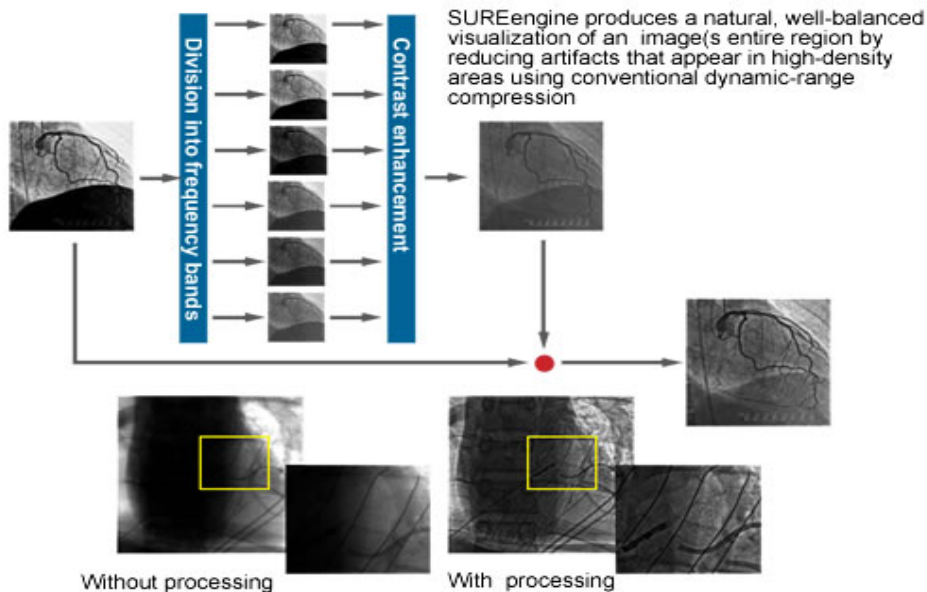
Since RSM-DSA is not affected by artifacts caused by bodily or respiratory movements, this feature is superbly suited for contrast examinations during emergencies and for portal veins requiring prolonged breath holding.

SUREngine

Realtime Multi Frequency Processing

Featuring direct-conversion flat panel detectors, the safire series continues to offer the highest image quality angiography systems available. Born from an uncompromising desire for greater image quality, SUREngine is our real-time image processing engine. SUREngine improves the visibility of stents, other devices and blood vessels while maintaining the high-speed real-time characteristics of fluoroscopy and digital cine radiography.

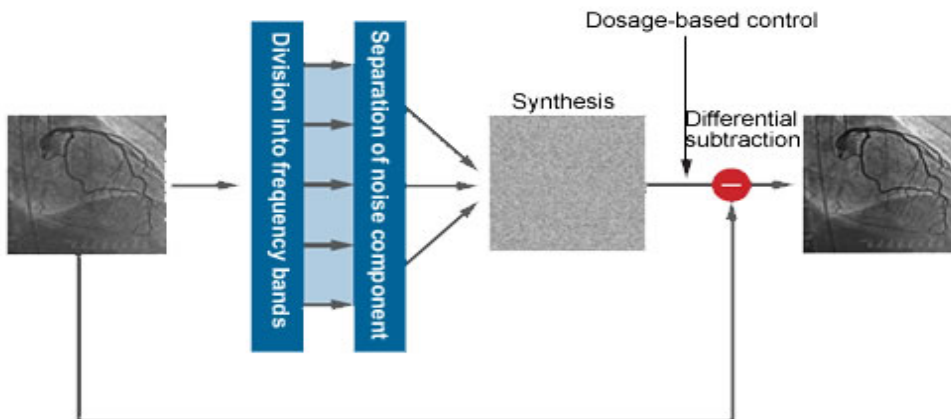
- Unlike conventional contrast enhancement that emphasizes only specific frequency bands, SUREngine's well-balanced enhancement crosses all frequency bands. This allows complete visualization of high frequency objects such as fine blood vessels, stents, and guide wires, using a natural level of enhancement.
- In addition to optimizing subject density, SUREngine produces a well-homogenized background by controlling regions turned white by halation or darkened by overlapping organs.



Realtime Flexible Noise Reduction

Acquired images are separated into different frequency bands and, at each band, the required image signal and its noise component are identified. The subsequent noise component is then suppressed allowing dosage-based control that enables continuous real-time delivery of optimized images.

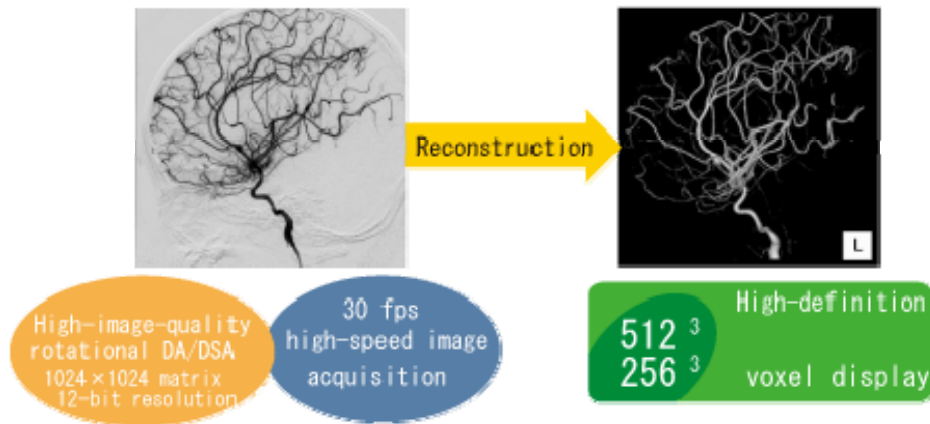
Even with fluoroscopy, where noise tends to increase at lower doses, clear moving images can be observed, without having the response reduced.



3D Angio

High-Definition 3D Images Via Direct-Conversion Flat Panel Detector

Thanks to rotational DA/DSA image data from a direct-conversion FPD that boasts world-leading resolution and no spatial distortion, reconstructed 3D images clearly represent even the finest blood vessels. Moreover, this FPD provides a high-speed image-acquisition rate of 30 fps, a high-definition 1024 x 1024 matrix and 12-bit high-density resolution.



MaxScan 60°/s High-Speed Rotation Reduces Patient Burden

MaxScan achieves the world's fastest C-arm rotational speed of 60°/s to rapidly cover a wide area, reducing both injection time and amount of contrast medium to help minimize patient burden.

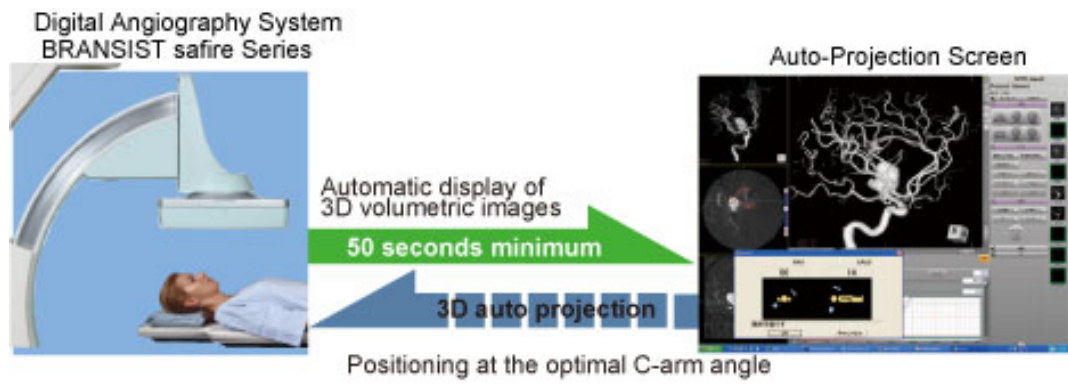
FAST

Rapid Positioning Via 3D Automatic Projection

Automatic projection at a constant angle to the displayed 3D image ensures rapid fluoroscopy positioning from the optimal angle, and improves intervention efficiency.

Rapid, Automatic Display of 3D Volumetric Images

This intervention-focused system ensures the rapid display of 3D images. 3D volumetric images are automatically displayed on the workstation monitor in a minimum of just 50 seconds after rotational radiography is complete.

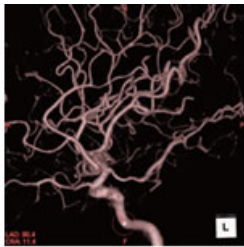


3D FUNCTIONS

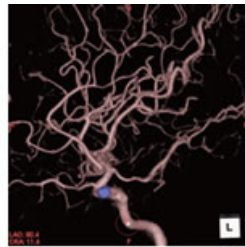
Diverse 3D Display Functions for Image Observation

Diverse 3D display functions allow observations of specific areas using a variety of methods, such as a C-arm just-turn function and volumetric rendering functions that include volume and distance measurements.

Cont:

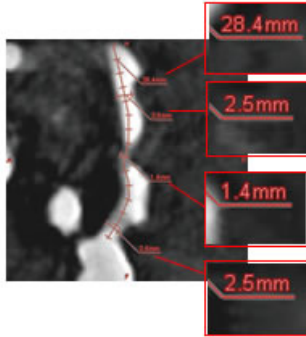


Coil display OFF

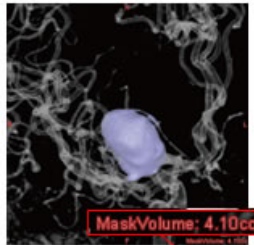


Coil display ON

Coil display function using rotational DSA mask images



Measurement of carotid stenosis



Volume measurement of aortic aneurysm

Distance measurement using cross-sectional images and volume measurement from VR data

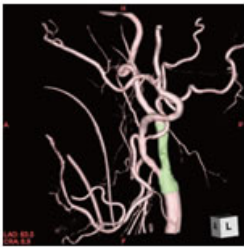
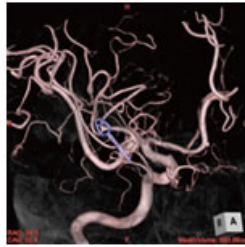
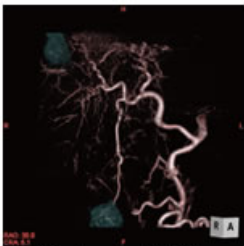


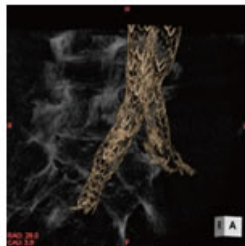
Image after inserting stents



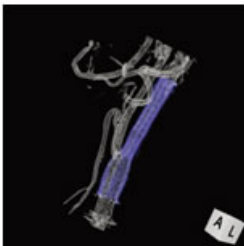
Clear visualization of devices



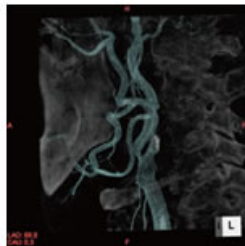
After hepatic TAE



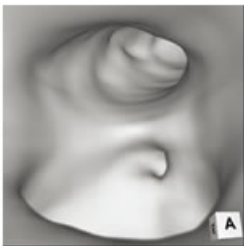
Stent in abdominal aorta



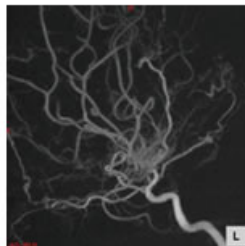
Superimposed stent and semi-transparent blood vessels



Semi-transparent display of blood vessels



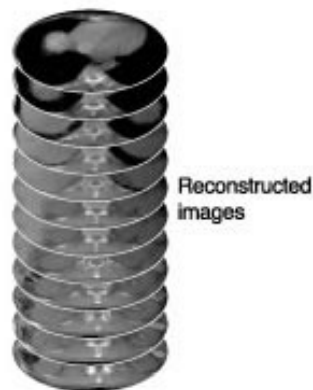
Virtual endoscopy mode



MIP display of Moyamoya disease

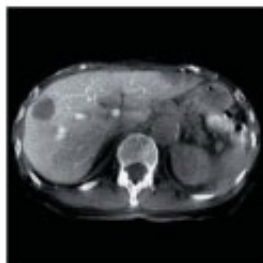
CT-like imaging Safire 3D-C

In workflows using a CT scanner for diagnosis and an angiography system for treatment, one new advantage provided by this angiography system is the "Safire 3D-C" CT-like imaging function. Using rotational images to reconstruct low-contrast regions that contain, for example, tumor stains and soft tissues enables the observation of freely specified cross-sectional images of the region of interest during treatment.



Images based on upwards of 300/600 views acquired by C-arm rotational imaging are transferred at high speed to the 3D workstation, where cone beam reconstruction technology produces axial, coronal, and sagittal images.

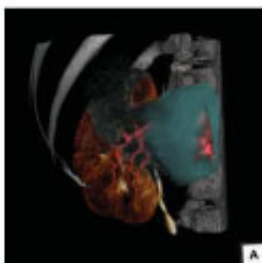
※ CT-like imaging function can only be installed in systems equipped with a 17-inch FPD.



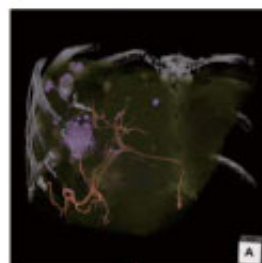
Axial image of HCC



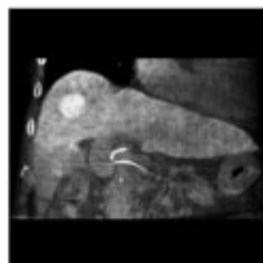
Coronal image of HCC



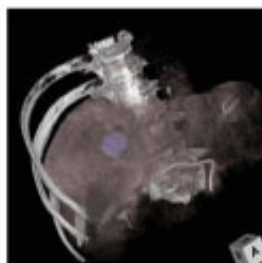
3D display of kidney cancer



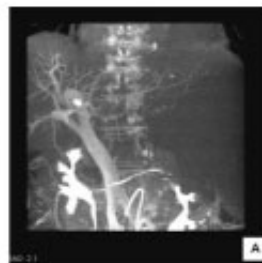
3D display of HCC



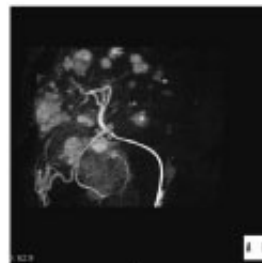
Coronal image of HCC



3D display of HCC



MIP display of portal vein



MIP display of HCC

(For more detailed information about this product, please contact us)

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