

Trinias B12 package

Digital Angiography Systems



Introducing Trinias

The synergy between Trinias and medical care providers committed to providing the highest quality medical treatment and interventions leads to better patient-centered care. Reflecting years of experience, Trinias has been painstakingly developed in conjunction with our customers.

It's a whole new experience



Crossover Angiography System

Unlimited potential. Expand the possibilities.



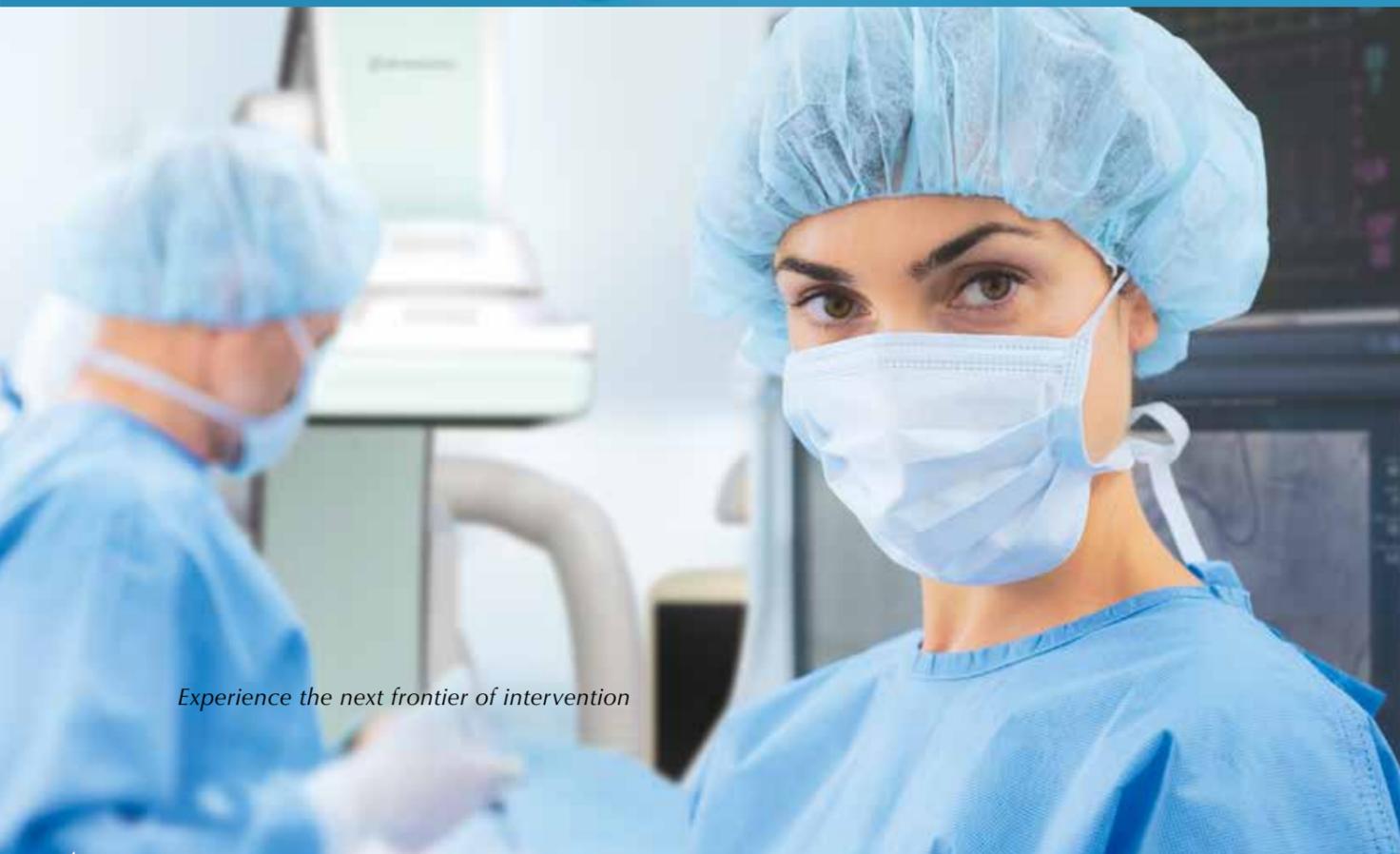
Equipped with
12 x 12-inch FPD

Experience the Next Frontier of Intervention

SCORE Imaging

Achieved through Shimadzu's proprietary ultra-high-speed image processing technology, SCORE imaging provides excellent visibility, a wealth of image guidance functions, real-time performance optimized specifically for the medical treatment, and sophisticated 3D application techniques.

This ensures powerful support for advanced interventions that allow timely treatment through on-the-spot decision-making.

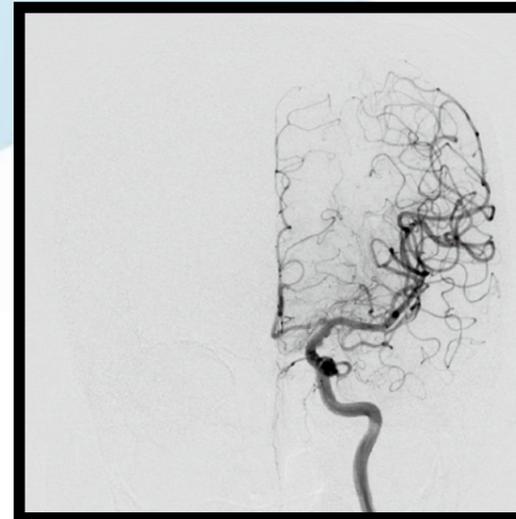


Experience the next frontier of intervention

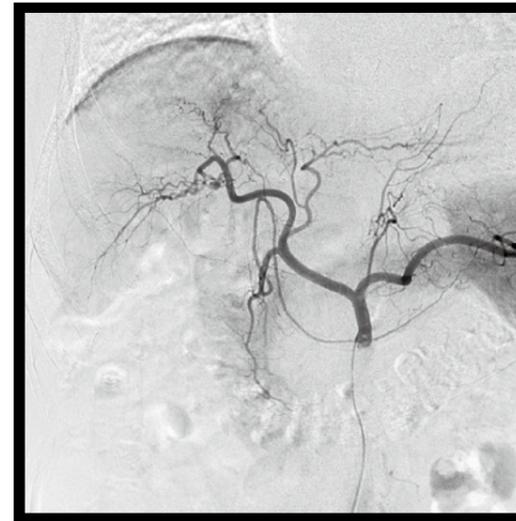
SCORE PRO

SCORE PRO is a next-generation image processing engine developed to provide fluoroscopy images on par with radiography, based on the concept of reduced exposure. Multiple sophisticated image processing functions are performed in real time, dramatically improving intervention device visibility during fluoroscopy.

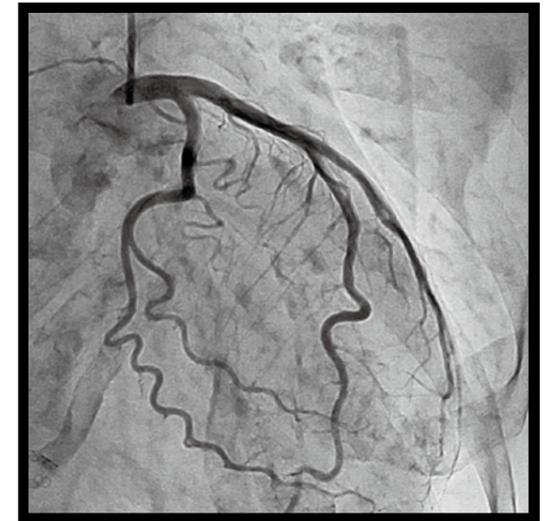
Neuro Imaging



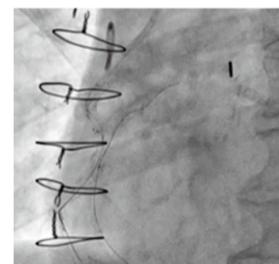
Neuro Imaging



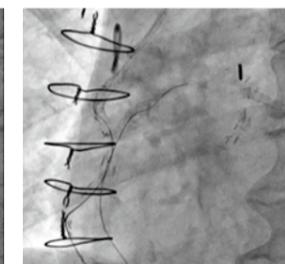
Abdominal Imaging



Cardiac Imaging



Fluoroscopy Image



Radiography Image

Achieving High-Definition Fluoroscopy

SCORE PRO applies multiple image processing functions to each frame in real time. This achieves high contrast, low residual imaging and low noise, dramatically improving the visibility of intervention devices.

SCORE RSM

SCORE RSM is an extremely motion-tolerant DSA technique, achieved through Shimadzu's high-speed digital image processing technology.

This application is especially effective for tracking across the entire lower extremities, 3D imaging in combination with C-arm precession and pendulum modes and examinations on patients who have difficulty holding their breath.



SCORE RSM Lower Extremity Tracking

*The photo is a reference image created by combining dynamic images. It cannot be displayed in its entirety on the monitor.



New Type of DSA Unaffected by Breathing Movements and Intestinal Gas



Normal DSA

SCORE RSM

SCORE StentView*

SCORE StentView is software developed specifically to support PCI procedures based on real-time image processing technology, a specialty of Shimadzu.

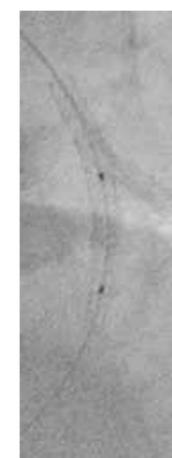
Stents move with the pulse beat. However, StentView displays stents in a fixed position, not through post-processing, but rather in real time. This is particularly effective for assessing positional relationships between overlapping stents, or when re-expanding a stent using a balloon.

* Optional

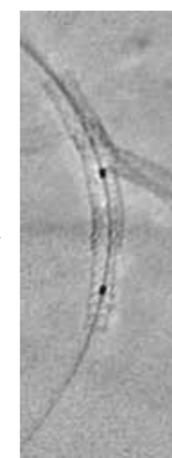


Real-Time Performance, a Necessity for PCI

Because SCORE StentView can enhance and fix the displayed position of stents in real time, rather than through post-processing, it is particularly effective for advanced PCI.



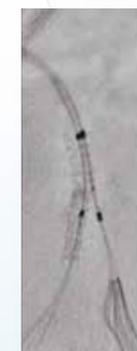
Without StentView



With StentView



Post balloon



Kissing balloon



Stent fracture



SCORE 3D*

The SCORE 3D application allows rapid display of the 3D reconstructed images automatically after rotational radiography. With a top rotational image acquisition speed of 60 degrees per second, the shorter contrast medium injection time reduces the burden on patients while suppressing the impact of movements on the images and ensuring high image quality. In addition, operability has been dramatically improved thanks to easy GUI customization via the pallet function.

Pallet Function

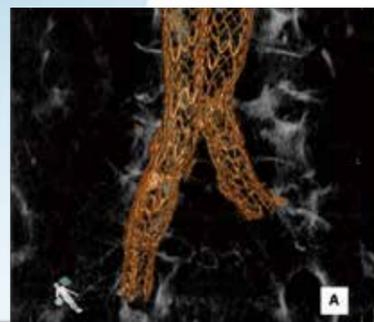
The GUI can be customized by users

See-Through Display

Semi-transparent display of vascular walls

Device Display

Selectively displays only the device



SCORE CT*

SCORE CT is an application for observing cross-sectional images of low-contrast regions, primarily tumor stains, during procedures. The application has two modes for use depending on the procedure and radiographic region of interest: a 10-second mode (20 degrees/second rotation) and a 20-second mode (10 degrees/second rotation). Axial, coronal, and sagittal images are displayed automatically after radiography.

CTAP

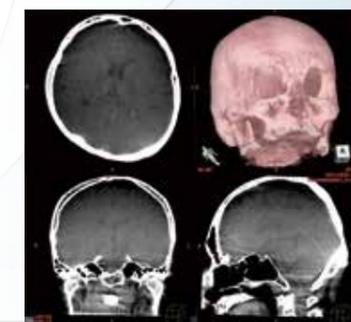
Excellent rendering of low-contrast regions

Neuro

Powerful support in the head region

Biopsy

Checking the needle position during a biopsy



* Optional

Changing the way. Making it possible.

SMART Design

SMART Design provides the operational functionality required to respond instantly and easily in accordance with the operator's intent.

Advanced interventional procedures are significantly enhanced with the flexible C-arm design, overall system integration and the "one-touch" control actions.



Changing the way.
Making it possible.

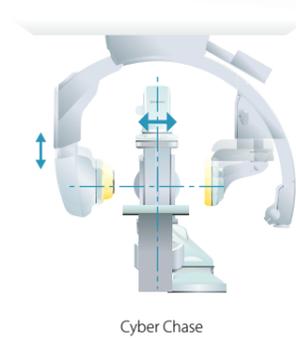
SMART Access

Arm positioning and setting with a biplane system is more complex than a single-plane system. The compact ceiling gantry and triple-pivot frontal plane construction of the Trinius offers multiple access points to the patient. This allows flexible arm positioning to support various procedure, treatment and examination scenarios.

Bi-plane B12

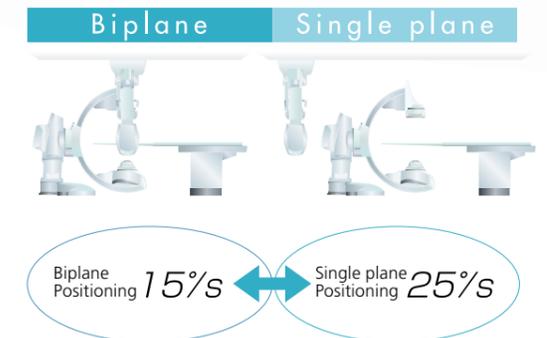
CyberChase Function Automatically Follows Areas of Interest

The ceiling gantry offers a vertical movement of 17.5 cm of the imaging chain to permit rapid biplane positioning to a region of interest, without altering the table height. The CyberChase function automatically follows the area of interest, even when the angle is changed, to ensure rapid and accurate positioning.



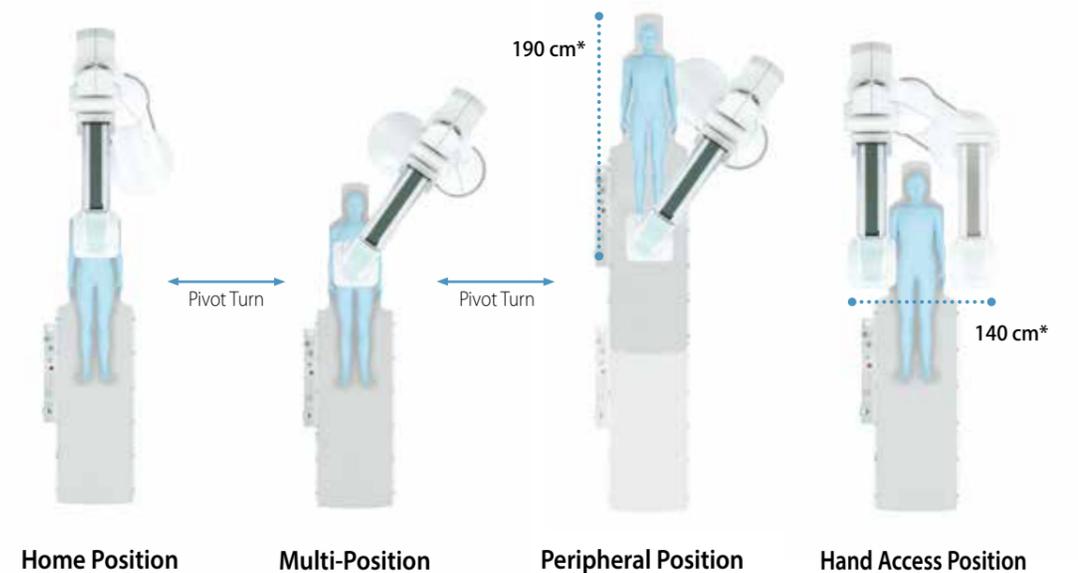
High-Speed C-Arm Supports Rapid Examinations

The high-speed frontal arm positioning of 25°/s in single-plane operation or 15°/s in biplane operation allows rapid switching between single plane and biplane operation providing a stress-free, smooth operating environment.



Six-Axis Triple-Pivot Construction for Full-Body Coverage

A total of six axes are provided for the base and rotational axes of the floor-mounted C-arm, achieving wide coverage. In particular, the triple-pivot construction of the base enables freely adjustable arm positioning.



*Stated length (cm) describes total X-ray imaging range added up by C-arm movement, table top movement, and FPD field of view.



SMART Assist

The system has been designed for single-action performance to make system control in the examination room and control room as simple as possible. This eliminates the need for troublesome operations during procedures.

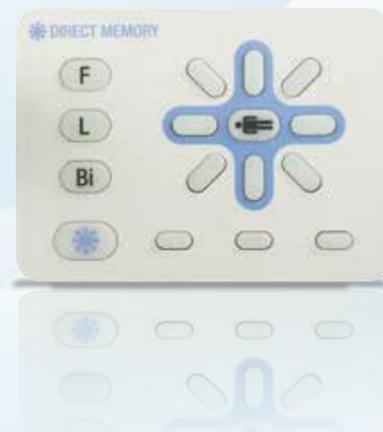
C-Arm Controller

The lever-type CyberConsole controller allows free and flexible C-arm operation.



DirectMemory

Registered clinical angles can be called up intuitively using a graphical controller layout.



Dynamic Referencing

The dynamic reference function enables video playback and stopping during fluoroscopy.



Changes, plays back, and freezes reference images during fluoroscopy. A thumbnail function enables immediate display of reference images.

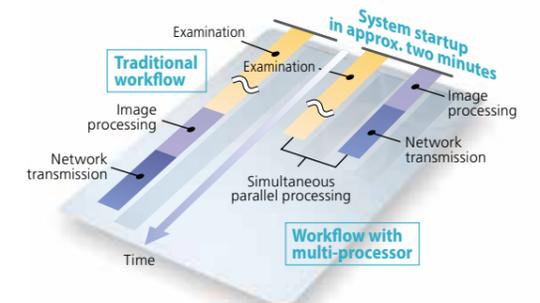
IVR-NEO

The IVR-NEO controller consolidates the required fluoroscopy, radiography and the image functions in one location during procedures.



Parallel Processing Achieves an Efficient Workflow

A multiprocessor enables parallel image processing during examinations providing an efficient workflow.



SMART Display*

With the large 56-inch high-resolution color LCD and touch panel controller, the operator can select the optimal display of image data to suit the current procedure.



*Optional

Safety + Comfort = SMILE

SMILE Concept

Shimadzu's SMILE Concept is primarily about concern for patients and operators, particularly in terms of reducing exposure. The concept is intended as a total solution for ensuring safety and peace of mind, which benefits both patients and operators.

Safety + Comfort = SMILE



SMILE Dose-eye

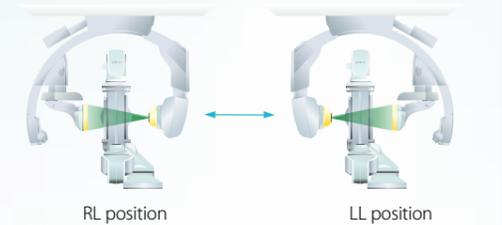
Seven Features That Reduce Exposure

SMILE Dose-eye achieves an excellent system-wide tradeoff between lower dose and higher image quality.

- 1 MBH Filter** Effectively eliminates unnecessary soft X-rays.
- 2 Pulsed Fluoroscopy** Select from 10 rates depending on the procedure.
- 3 Grid Control** Blocks unnecessary soft radiation.
- 4 Virtual Collimation** Enables collimation without fluoroscopy.
- 5 LL↔RL switching** Alleviating the concentrated X-ray exposure at a specific position.
- 6 Fluoroscopy Video Recording** High-definition fluoroscopy can substitute for radiography.
- 7 Area Dosimeter*** The monitor displays the actual dosage in real time.
* Optional

LL↔RL switching

X-ray tube left or right positioning (LL↔RL) with single button operation. Switching the X-ray tube position for each examination alleviates the concentrated X-ray exposure at a specific position on the patient.



SMILE Recovery

High-Speed Setup

All functions are available within two minutes after the power is turned ON.

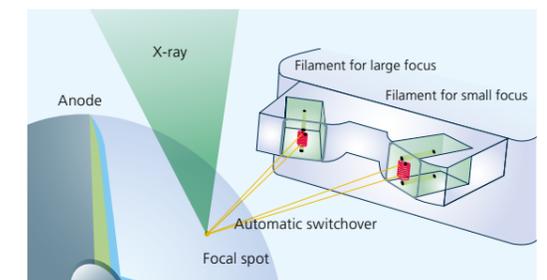


Data Mirroring

Mirroring the image data provides a redundant data architecture.

Backup Filament

If the filament burns out during an examination, it will be replaced automatically so the examination can be continued.



Go Green

Environmentally Friendly

The system standby power has been revised to achieve power savings of up to 30%.*

* In comparison to other Shimadzu angiography systems (during standby)

30%
reduction

reduction
30%

Founded in 1875, Shimadzu Corporation, a leader in the development of advanced technologies, has a distinguished history of innovation built on the foundation of contributing to society through science and technology. We maintain a global network of sales, service, technical support and applications centers on six continents, and have established long-term relationships with a host of highly trained distributors located in over 100 countries. For information about Shimadzu, and to contact your local office, please visit our Web site at www.shimadzu.com



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Shimadzu Corporation Medical Systems Group has been certified by TÜV Rheinland as a manufacturer of medical equipment and systems in compliance with ISO9001:2008 Quality Management Systems and ISO13485:2003 Medical Equipment Quality Management Systems.

Remarks:

- Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- The appearances and specifications are subject to change for reasons of improvement without notice.
- Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
- Before operating this system, you should first thoroughly review the Instruction Manual.