Note)

SCORE stands for Shimadzu Challenge Of Revolution

SMART stands for Shimadzu Makes Advanced Remarkable Technology

SMILE stands for Shimadzu Makes Innovation in Life for Everyone

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.
- Items and components in the photos may include optional items. Please confirm with your sales representative for details.
- System configurations and options may not be available depending on the country. Please confirm with your sales representative for details.
- Before operating this system, you should first thoroughly review the Instruction Manual.
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Label Description: Digital Angiography System Trinias

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 website at **www.shimadzu.com**

Management System
ISO 9001:2015
ISO 13485:2016

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Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

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6032-08601-MF

SHIMADZU
Excellence in Science

C505-E088B

Digital Angiography System

Trinias series

with SCORE Opera

B8s/C8s/F8s

Trinias™ *Concept*

Solutions for Today's Challenges in the Workplace

Therefore, we created three concepts

Shimadzu, as a leader in healthcare technology,
has moved medical procedure another step closer to the future.

Providing high quality images
at lower doses

ALARA* *Design*

*ALARA: As Low As Reasonably Achievable

Designed for efficiency
to provide simplified workflow

Lean *Design*

Designed for flexibility to adapt
to your changing practice for a lifetime

Sustainable *Design*

Cardiology System



B8s



C8s



F8s



Standard Table



Multifunctional Table

feel Trinias!

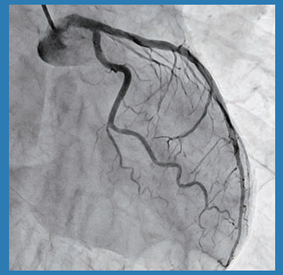
SCORE Opera

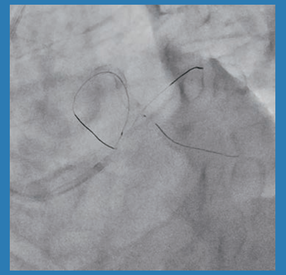
An AI filter elevates the image processing engine to the next level

'SCORE Opera' applies AI (deep learning technology) filter technology to enable efficient noise suppression and contrast enhancement, and to improve the visibility of devices that is generally difficult to achieve under low dose conditions. In addition to reducing radiation exposure, the burden of image diagnosis to physicians will be reduced, reducing procedure time.

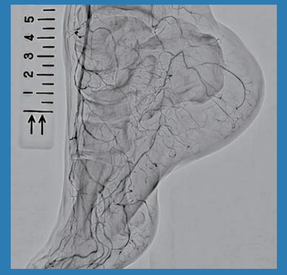
10 times the image processing speed
Provides clear images with less than half the conventional dose.













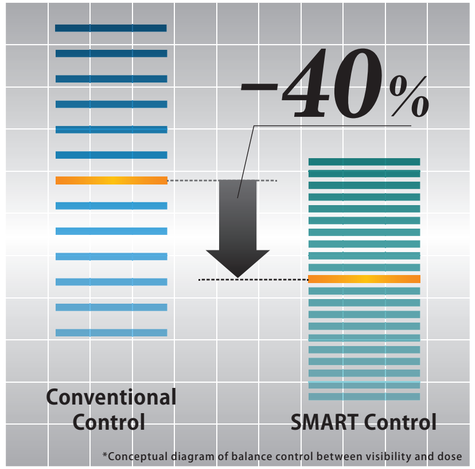
ALARA Design

SMART Control

Fine-control of device visibility at low-dose range

SCORE Opera has succeeded in reducing the fluoroscopic dose by up to 40% or more*. In order to further promote accurate procedure in the low dose range, it is equipped with 'SMART Control' which provides two user interfaces that control the balance between visibility and dose level in real-time, while supporting fine-control of device visibility according to the procedure scene.

(*Comparison with our conventional system under standard dose ratio [Air Kerma] at 7.5pps and 10pps.)



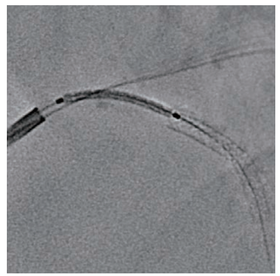
*Conceptual diagram of balance control between visibility and dose

Option

SCORE StentView

Supports Safe and Accurate Stent placement

Advanced PCI support application that makes full use of real-time image processing. In situations where it is difficult to identify the stent, SCORE StentView offers a unique function that increases stent detection, reducing unnecessary exposure due to re-acquisition.



Option

SCORE StentShot

For accurate evaluation of Stent condition after placement

Based on the real-time image processing technology cultivated in SCORE StentView, noise on the image is greatly reduced by performing sequential processing. It can provide a still image suitable for the evaluation of the stent condition after placement.

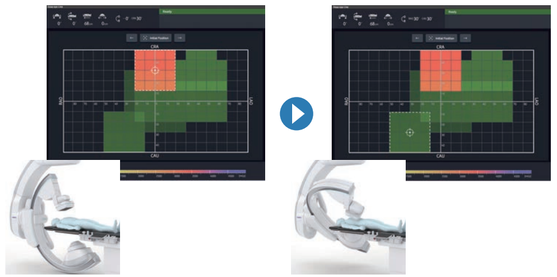


Option

Dose-eye Live

Dynamic dose map helps to prevent zones of high dose concentration

Dose eye Live is a dose map application that displays the maximum local entrance surface dose in real time during the procedure. The maximum dose is displayed in a color map, making it easy to see if there are dose hotspots during the procedure.

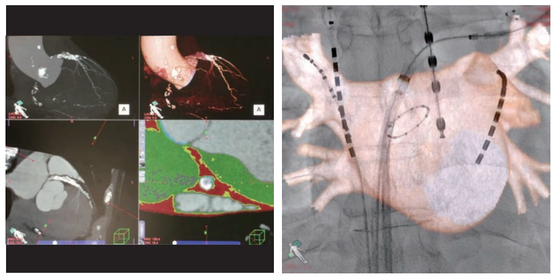


Option

SCORE Navi + Multimodality Q/R

Advanced medical care with 3D image guidance.

It supports minimally invasive procedure by effectively utilizing fluoroscopy images. In addition to fusing MDCT- and MRI-based 3D images with fluoroscopic images, bidirectional angular linkage enables the 3D images to follow C-arm movement and allows the C-arm to be positioned at the angle displayed in the 3D images.

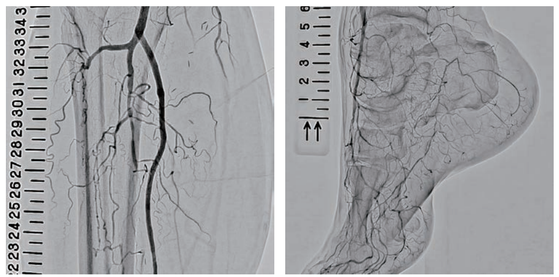


Option

SCORE RSM

Shimadzu's unique DSA feature
Powerful solution for patient movement

SCORE RSM is a mask free DSA Imaging technique which Shimadzu's high-speed digital image processing technology has reached. SCORE RSM is motion tolerant and appropriate for procedures where voluntary or involuntary motion is unavoidable, like peripheral and abdominal imaging.



Option

SCORE Chase

Long view image
with automatic stitching

SCORE Chase automatically generates a long view image of the leg by tracking contrast media while the user is freely panning the table in both the longitudinal and transverse direction.

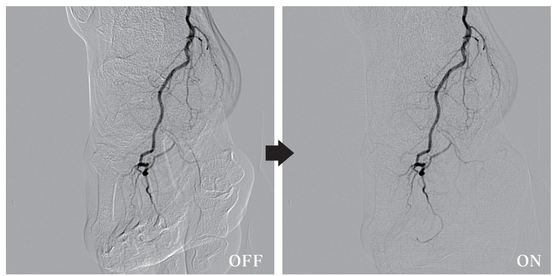


Option

Flex-APS

New Auto Pixel Shifting
using pixel tracking technology

Flex-APS automatically corrects misregistration in real-time while also supporting body movements with twists that cannot be handled by conventional misregistration correction.

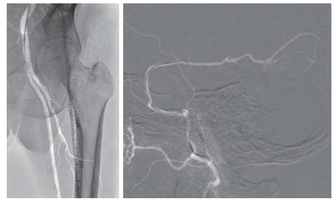


Option

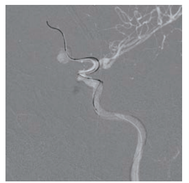
SCORE MAP

Versatile road map functions are available according to the target region of intervention and type of procedure, which provides normal fluoroscopy with easy selection of bone or bone-free display.

DSA-MAP



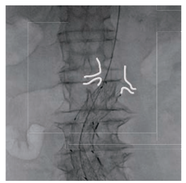
FluoroMAP



TraceMAP



Sketch function



Option

SMART Voice

Voice recognition user interface

Smart Voice enables you to operate up to 18 angiography functions in a hands free environment, allowing the operator to maintain focus on the patient.

Smart Voice supports Lean Design concepts by simplifying workflow and enhancing efficiency at a time when staffing challenges require easier tableside operation.

*Not all system operations can be controlled with SMART Voice.



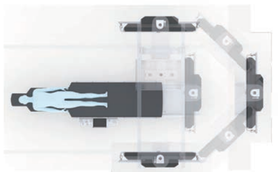
Option

SMART Display 55”

Free monitor layout and display layout

SMART Display is a monitor solution that centrally manages the abundant image information required for advanced interventions and allows it to be freely arranged and displayed. Its large 55-inch screen supports an optimal image layout for each procedure.





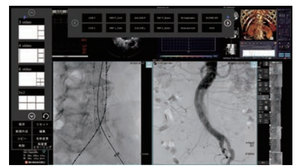
Option

SMART Display 31”

Integrated operation for comprehensive system

Up to two 31-inch monitors that can simultaneously display up to 8 channels with 4K output can be installed in the control room. Only one set of keyboard and mouse allows flexible display layout and operation of connected medical devices.

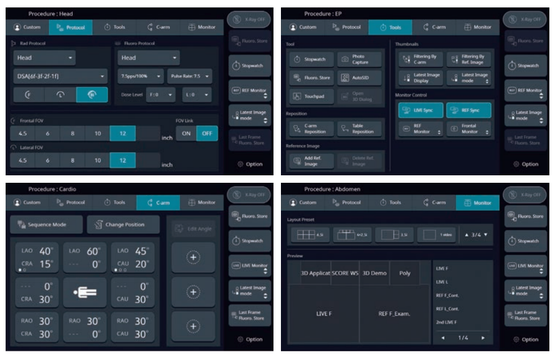




Single-Action 100+

Time saving
Single-Action functions

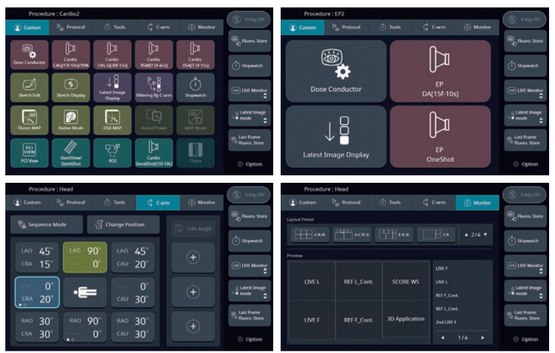
More than 100 single-action functions are integrated for the touch panel console “SMART Touch” on the table side. Using human-centered design, even first-time users can operate smoothly.



Customize freely

Realizing your ideal workflow
by customization

You can customize the single-action function page and register the direct-memory angles for each procedure type and/or operator. We provide a stress-free operating environment that is ideal for your workflow.



Tableside Control Modules

Flexible module layout with
subdivided design

To realize an operating environment that suits each function, we have adopted a separable modular system based on a human-centered design.



Femoral Approach Mode

Femoral Puncture Position
With a single action

Femoral approach mode is a function that achieves the positioning of femoral puncture merely by operating the table panning, making daily routine work easier.

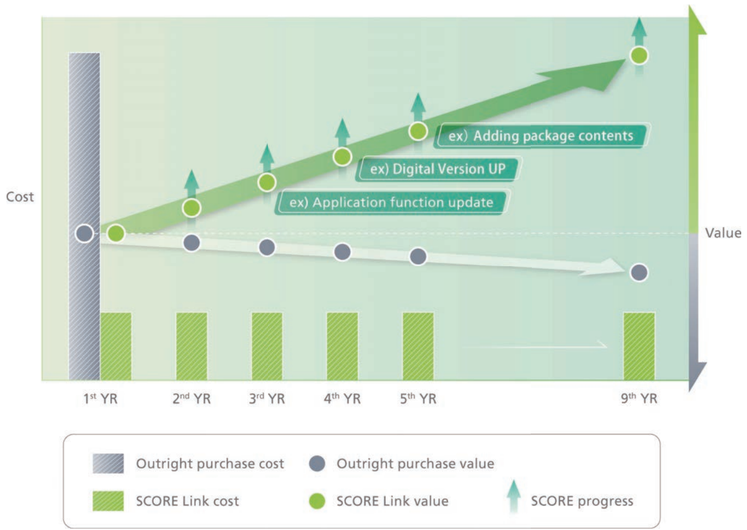


SCORE Link

Continue to grow added value during the product life cycle.

Interventional procedure is an area where new technologies are developing rapidly during the lifetime of product ownership.

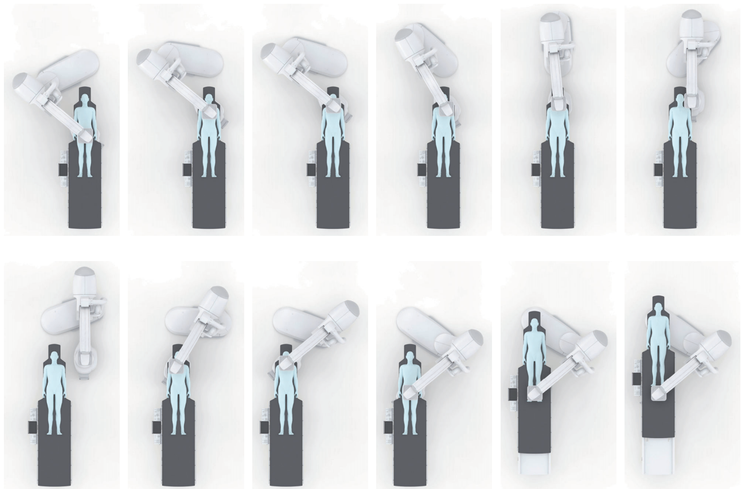
SCORE Link is a subscription service that continues to provide new technology even after the product introduction. By selecting a package that matches the operation of your facility, you can use the latest functions efficiently while controlling your costs and adjusting your functionality over time.



SMART Access

Symmetrical flexible positioning regardless of clinical area

In the pursuit of versatility, the newly designed C-arm enables symmetrical positioning regardless of whether it is floor-mounted or ceiling-mounted. By adding a wide range of movement to both the short and long axis of the C-arm, it is possible to support procedure in any layout. This flexibility allows us to respond to future expansion of clinical fields and policy changes.



Compact Design, Expansive Potential

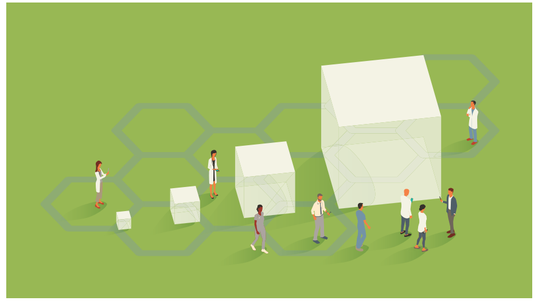
For wide-range and long-time use

The versatile hardware design, unified platform, and simple ecofriendly design make it easy to cover various procedures and expand upgrade functions.

Minimum cables around the C-arm and cable management in the ceiling reduce the risk of interference with peripheral equipment and support better sterility. Small numbers of monitors and PC provide a wide working space in the control room.

In addition to unifying the platform, we have reduced the machine room footprint and the number of cables between rooms*. This not only shortens the installation time and lowers the site install costs.

Compared to our conventional products.
*Single plane
Reduction of cables by 56%
Reduction of machine cabinets by 43%
*Bi plane
Reduction of cables by 60%
Reduction of machine cabinets by 39%





The cable photo in the ceiling is of the optional Flex Guide type.

Go Green

Plan future life cycle with eco design

We reduced the footprint of the machine room by over 40%, reduced the number of cables used by over 50%*, and promoted not only a reduction in terms of materials but also optimization in design.
Our redesign will improve the expandability of reborn eco project**, to upgrade from existing equipment. Go Green aims for future-oriented life cycle eco design.

*Compared to our previous system
**This program may not be applicable due to the regulation of each country.
Please contact our sales person to clarify its availability.



SMART Support

Extensive after-sales service

For long-term use with peace of mind, a service engineer specializing in angiography systems watches the status of the operating system at remote maintenance centers set up at service bases in each country. Detect trends before problems occur and take proactive measure to reduce downtime as much as possible.



Even More Worry-Free and Reliable Japanese Quality for Interventional Procedures

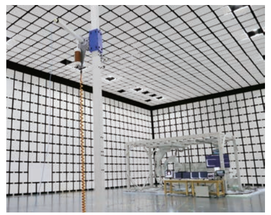
All Processes, From Production to Quality Control and Shipping, Performed Within Shimadzu

Shimadzu manufactures Trinias products at Shimadzu's own advanced technology plant, where all processes from production to quality control and shipping are performed within the Shimadzu facility to ensure Trinias products are delivered with the highest quality.



Advanced Quality Center Ensures High Quality

Within the Shimadzu facility, Shimadzu has built a Quality Center that is equipped with state-of-the-art equipment for various evaluation and analysis necessary to ensure that only the highest quality products are delivered. The Quality Center is also used for product development, quality assurance, and to ensure compliance with various regulations and standards.





Proactive Service Support Program

Periodic Maintenance

•Our professional service experts visit periodically and inspect the system.
•Mechanical, electrical and safety checks are performed. Calibration is carried out whenever necessary to ensure optimal system performance.



Emergency Service Support

•Shimadzu local service centers ensure rapid response times.
•On-call support is available for your emergency needs.



Parts Warranty Program

•A selection of parts warranty programs is available for you to select and manage.

Remote Maintenance Service

The Shimadzu "Site-View" provides you with remote maintenance service.
•In the event of possible system errors, the Site-View automatically generates an alert message for proactive service support by our field service engineers.
•Remote maintenance team will support your Trinias system with Shimadzu "Site-View" care programs.
•Our system experts periodically analyse system log files through Site-View.





