

Digital Angiography System

Trinias series

with SCORE Opera

B12s/C16s/C12s/F12s



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 treatment 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

Crossover Angiography System



C16s



B12s



C12s



F12s



Standard Table



Multifunctional Table

feel Trinias!



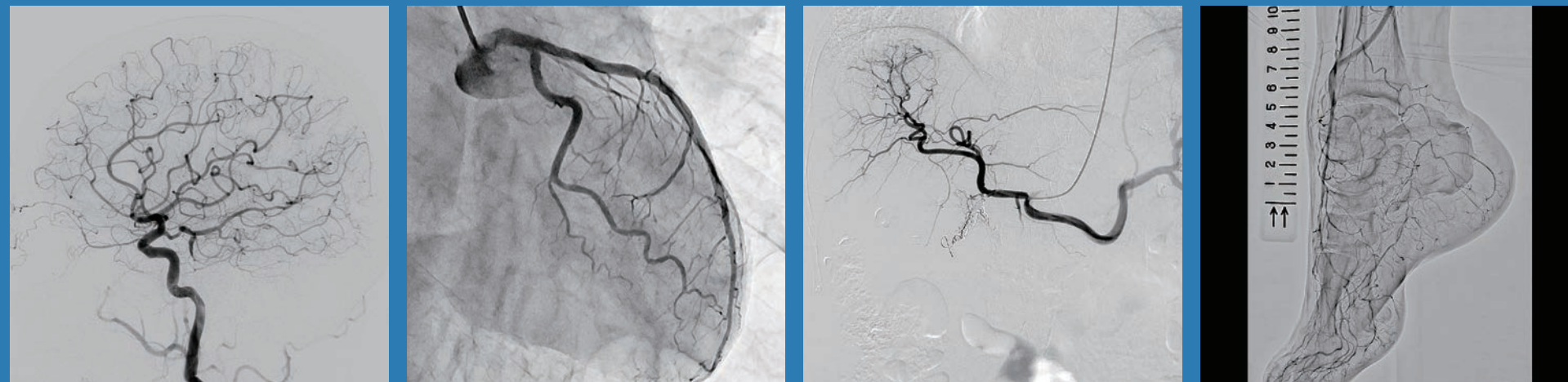
SCORE Opera

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 treatment time.

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

Deep Learning

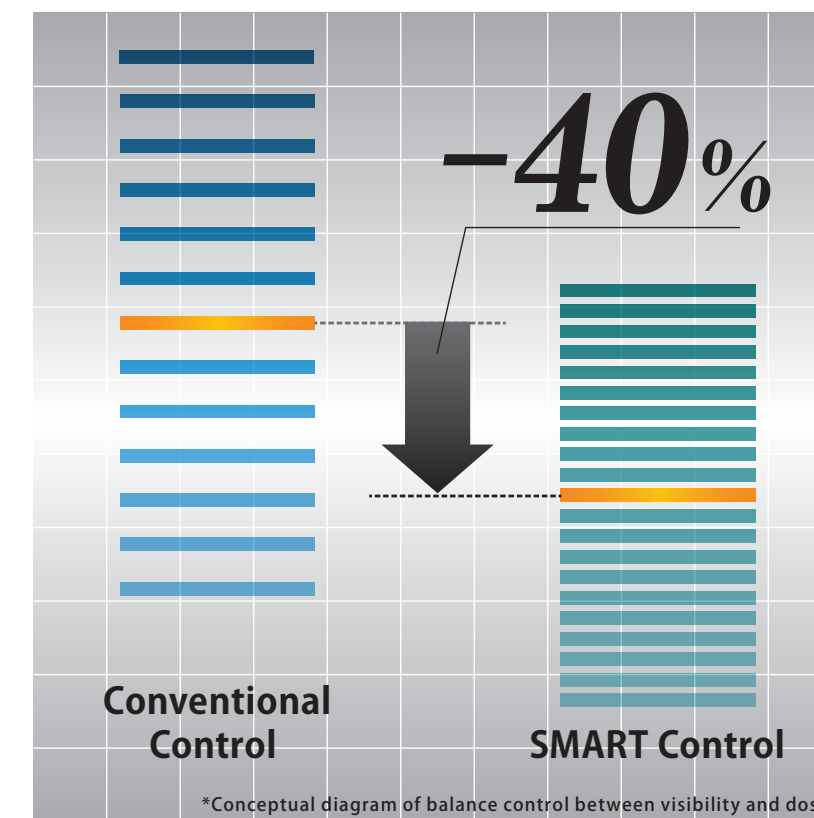


SMART Control

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 treatment 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 treatment scene.

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



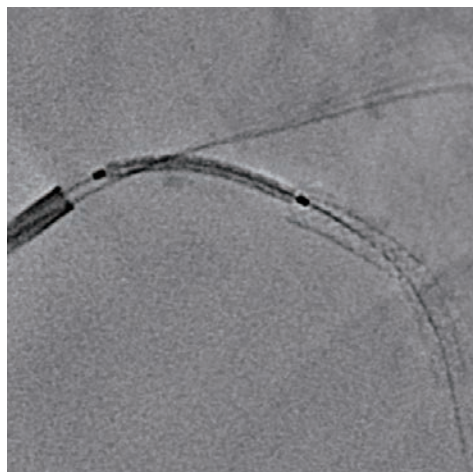
*Conceptual diagram of balance control between visibility and dose

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.

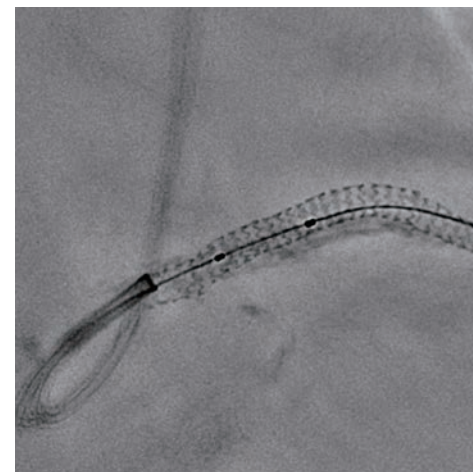


Option

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.

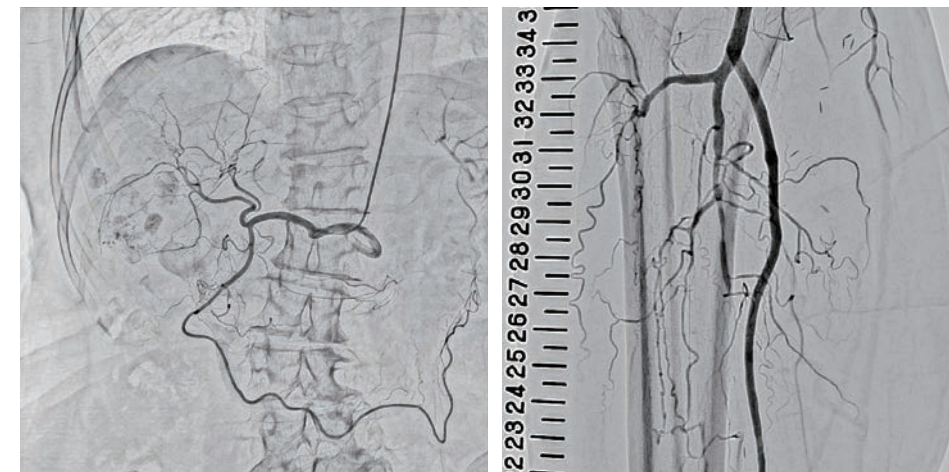


Option

SCORE RSM

Shimadzu's unique DSA feature
Powerful solution for patient movement

SCORE RSM is a mask-free DSA imaging technique that Shimadzu succeeded in developing first in the market. SCORE RSM is motion tolerant and appropriate for procedures where movement is unavoidable, like bolus chasing and when the patient struggles to hold their breath, and so on.



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.

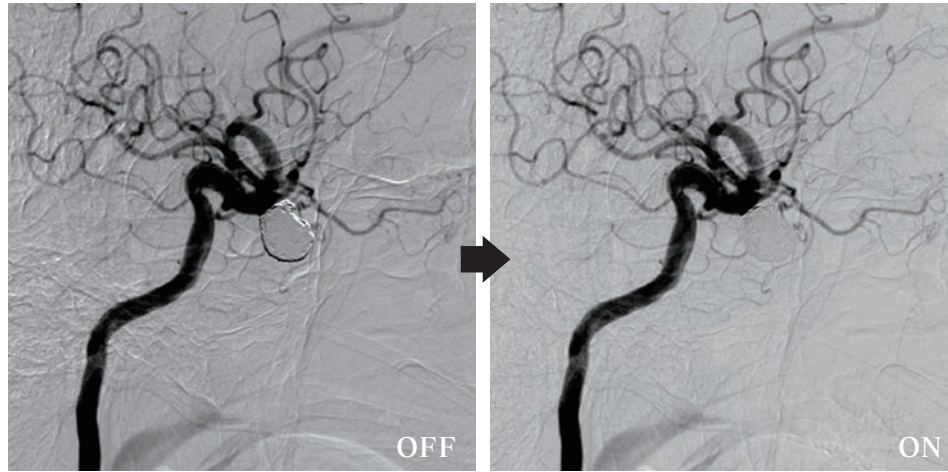


Option

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.

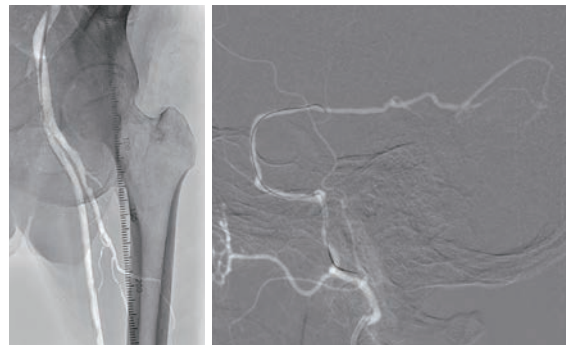


Option

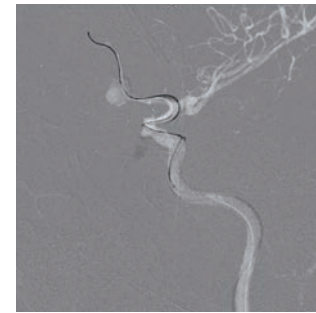
SCORE MAP

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.

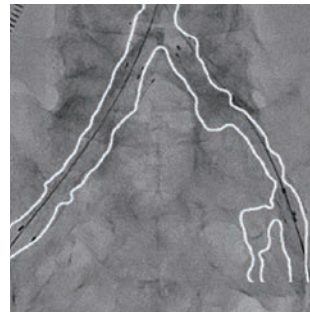
DSA-MAP



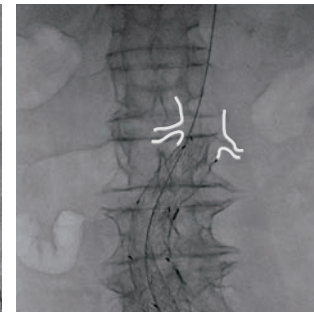
FluoroMAP



TraceMAP



Sketch function

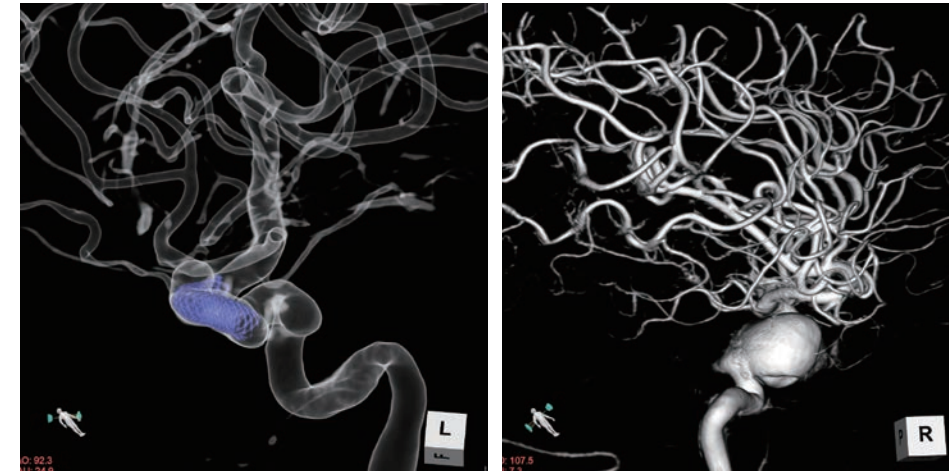


Option

SCORE 3D

Advanced medical care
with 3D image guidance.

3D imaging provides detailed pre-treatment planning and careful post-treatment follow-up in the catheterization room.



Option

SCORE CT

Side Acquisition C-arm CT
With either ceiling or floor-mounted C-arm

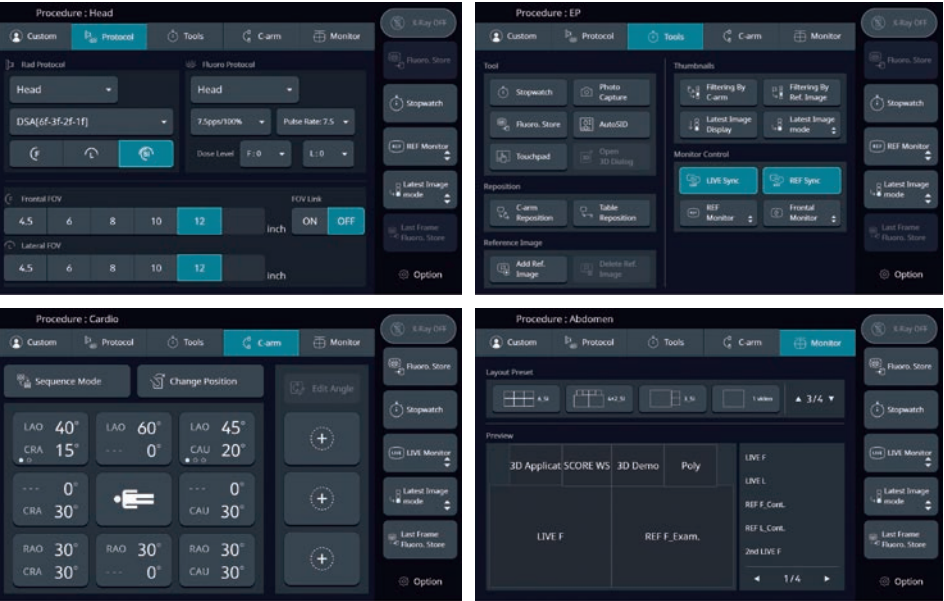
The ability to acquire C-arm CT in both the left and right-side positions of both the floor-mounted and ceiling mounted C-arms. Side acquisition C-arm CT can be performed during normal clinical use with our typical room size and layout.



Single-Action 100+

Time saving
Single-Action functions

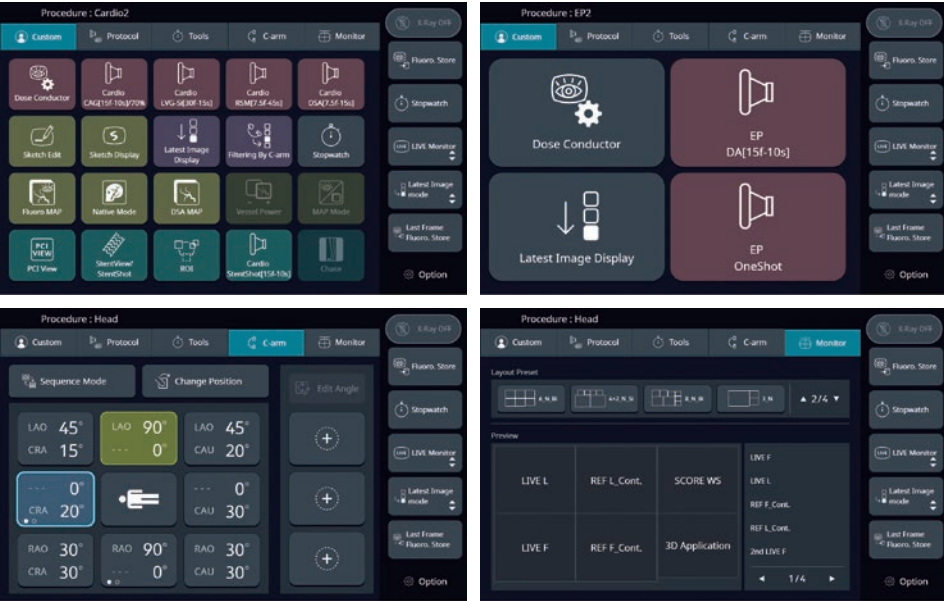
More than 100 single-action functions are integrated for the touch panel console “SMART Touch” on the table side. Using human-centered design, even first-time users can operate smoothly.



Customize freely

Realizing your ideal workflow
by customization

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



Tableside Control Modules

Flexible module layout with
subdivided design

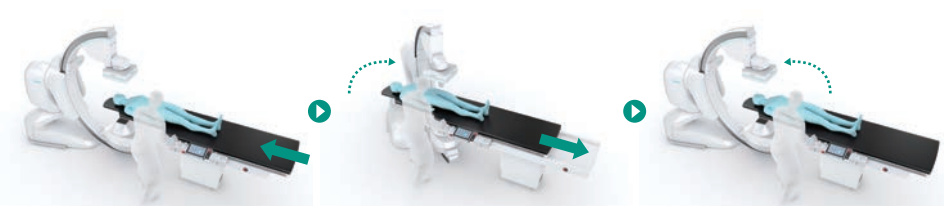
To realize an operating environment that suits each function, we have adopted a separable modular system based on a human-centered design.



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.



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 treatment in any layout. This flexibility allows us to respond to future expansion of clinical fields and policy changes.



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 file cycle eco design.

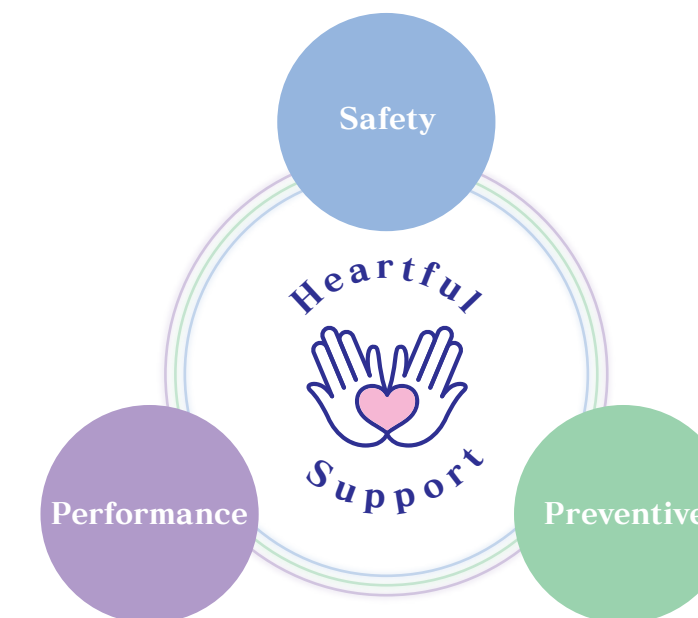
*This program may not applicable due to the regulation of each country. Please contact our sales person to clarify its availability.



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

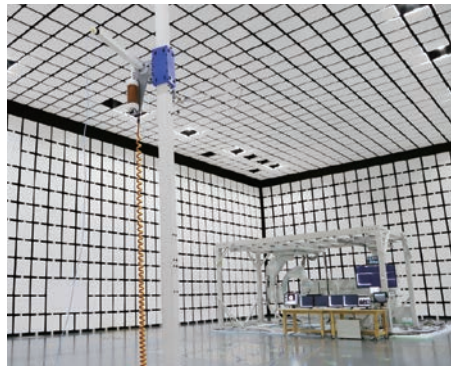
All Processes, From Production to Quality Control and Shipping, Performed Within Shimadzu

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.



- SUBSIDIARIES
- OFFICE
- Sales & Service Agents

Worldwide Service Network

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

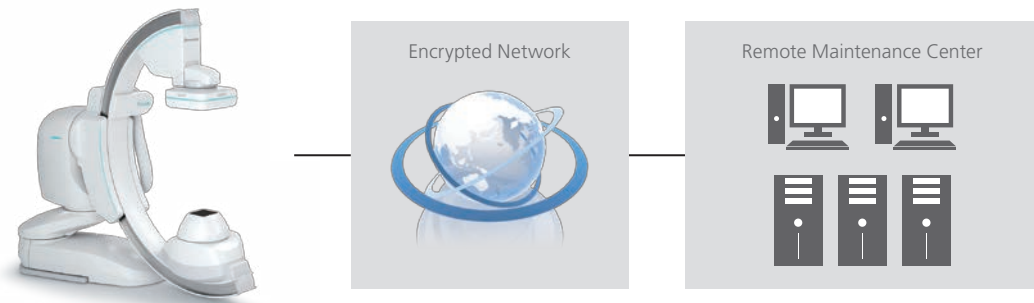
- Shimadzu local service centers ensure rapid response times.
- On-call support is available for your emergency needs.

Parts Warranty Program

- A selection of parts warranty programs is available for you selection to manage your service needs and plan your running costs.

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.



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.

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
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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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