Label Description: Digital Angiography System Trinias

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Shimadzu Corporation

Headquart

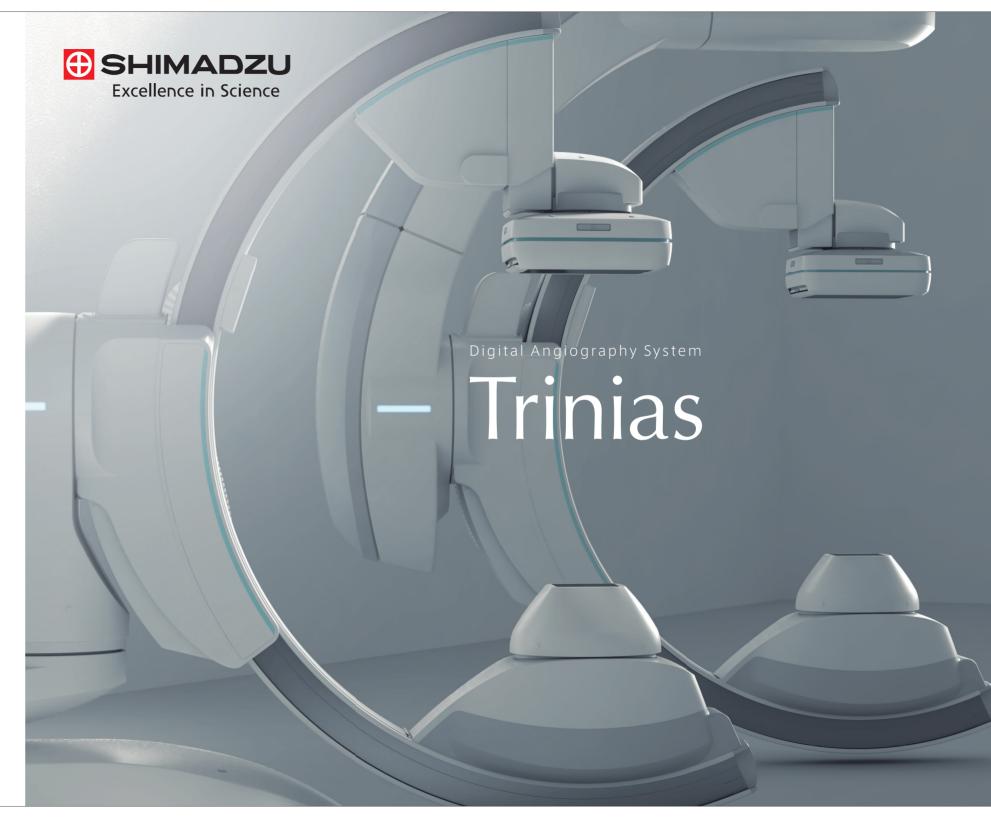
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Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

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- 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.
- 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



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Scan me,

feel Trinias!

Solutions for Today's Challenges in the Workplace

The global shortage of healthcare workers is predicted to reach 18 million by 2030, with the cost of labor inefficiencies estimated to be 500 billion dollars per year.

As a result, the healthcare system, which sustains our lives, will require greater workplace productivity than ever before.

Shimadzu redesigned the workflow of our Trinias™ angiography systems to offer improved solutions for the challenges currently facing medical treatment centers and to address the challenges that they will face in the future.

We started by examining the basic policies about developing angiography products, which resulted in identifying three key design concepts:

ALARA Design, Lean Design, and Sustainable Design

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





"Interventional procedures involve a series of dilemmas. The most critical of these dilemmas requires using the lowest-dose mode possible without jeopardizing image quality. In some cases, it could actually increase total dose if it requires multiple image acquisitions. Is there any other way to reduce the dose for patients?"

Three Key Concepts to Solve Workplace Challenges



"Despite physicians wanting to operate the system themselves, they need to focus on the catheter and patient, or they struggle with workflow that does not fit with their work practices. Pressing multiple buttons to use a single function is too inefficient."





Improving the Quality of Medical Treatment while Fully Protecting the Health of Medical Workers and Patients

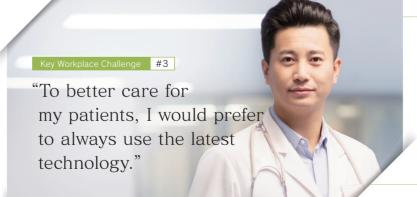
Based on the concept "As Low As Reasonably Achievable (ALARA)," the aim is to minimize the mental stress on personnel and patients by not only reducing X-ray dose levels but also by improving treatment precision with improved image quality.

*ALARA: As Low As Reasonably Achievable



Offering Stress-Free Operation and Workflow for Medical Workers Involved in a Race where Every Minute and Second Counts

Offer intuitive and flexible operations for achieving optimal workflows and shorter procedure times. Aim to create a comfortable working environment by designing products that support the flexibility needed to be operated by various personnel, regardless of their expertise level.



"Even products that are not very old can feel like their performance level is from a previous era. It becomes difficult to safely adopt new procedures when the system is not due to be replaced and doesn't include the latest technology built for the latest procedures."



Always Providing a State-of-the-Art Medical Environment without Compromising that Sense of Satisfaction by the Users after Introducing a New System

Always achieve a state-of-the-art environment by offering a platform for growth that can maintain pace with rapid technological advances and ensure products do not become obsolete before the end of their service life. Aim to support hospital management by offering future expandability while minimizing operating costs and downtime with product design that eliminates waste and provides continuous after-sales services.

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AI-based image processing achieves the Visibility of fluoroscopy images needed to perform procedures while reducing dose levels.

The use of AI (deep learning) technology has enabled the successful achievement of both noise suppression and enhanced device Visibility of fluoroscopy images. Operators can clearly see what they want to see while achieving lower dose levels.

Fewer Errors for Shorter Procedure Times



Better imaging solutions provide improved real time guidance, contributing to error prevention on minimally invasive procedures.

Unnecessary repeat acquisitions are reduced as low as possible using unique applications to help compensate for devices that are difficult to visualize, movement of the beating heart or from breathing, and patient body movement. Improved imaging helps shorten procedure times and reduces stress and dose levels for medical workers and patients.

User aids to Reduce Dose Level Even Further



The specifications and design encourage awareness of dose reduction, thus lowering exposure levels to medical workers and patients.

The system presents the cumulative dose values for each X-ray exposure area and notifies operators of the total dose applied during each examination. Providing total dose values calculated based on the trends of similar procedures can further increase awareness about minimizing dose levels during procedures.

Dose rate ↓40%* / Visibility ↑25%**

Real-time Image Guidance '15'

Dose concierge







Complex operations can be combined into a single-step function. It enables intuitive and smooth operations.

Complex operations can be executed in a single step. Single step operations reduce the number of operations and it enables assigning easy-to-grasp icons which allows first-time users to learn quickly.

Freely Customizable to Meet Users' Needs



Simple operation and customizability help users achieve their optimal workflow.

Optimal workflow depends on the user. The system is designed for extremely simple operation while also being flexible enough to allow each user to create their ideal flow. Users can achieve the best possible user environment for themselves.

Comfortable Operations for Both Team Operation and Single User Operation



This design feature provides an operating environment suitable for any team environment and helps improve work efficiency.

In addition to providing an environment where all operations can be completed from the tableside, improved functionality supports concurrent operations by multiple people and achieves an operating environment that allows interchangeable user operation. Team operation makes it possible to work comfortably and efficiently.

Design includes over 100 single-step functions

The number of configurations is infinite

Supports single or multiple operators

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Periodic Updates Keep the System Up-to-Date



Periodic updates to the software package ensure the latest functionality is always available.

Software update packages are also available on fixed-term contracts. Functionality can be updated based on the changing needs in the workplace, allowing institutions to access a state-of-the-a rt treatment environment while minimizing cost.

After-Sales Services Ensures Systems Will Provide Long Life Cycles



System design provides powerful support to reduce downtime, reduce installation and maintenance time and to ensure a continuously reliable operation.

Improvements to our delivery process will shorten the time between delivery and startup. A simplified design is robust and easy to maintain, and when combined with after-sales-service solutions, ensures high performance for the product's lifetime.

Eco-design for Future Expandability



The highly expandable platform design makes it easy to accommodate changes in clinical practices.

In addition to the versatile hardware design, the functionality of the system can be easily expanded or upgraded. It can smoothly keep pace with changes, such as offering new types of procedures or entering new clinical services as a result of changing hospital strategies.

Subscription

Remote Maintenance Support

eBORN program*