

RADON

MEDICAL IMAGING



Hitachi Scenaria View 128

radonmedicalimaging.com

We focus on people, innovative products,
and service excellence

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HITACHI
Inspire the Next

CT



SCENARIA View

LOWER DOSE,
REMARKABLY OPEN DESIGN

the next level in ct

SCENARIA View

Efficiency

Experience enhanced workflow speed and clear CT image quality across a wide range of applications using 64 slice acquisition and up to 128 slice reconstruction. Access the latest dose awareness, reduction and management features.* Benefit from more open patient access, a compact footprint, new energy efficient technologies and lower cost of ownership with Hitachi's SCENARIA View.

With the SCENARIA View **the next level** in CT is here.

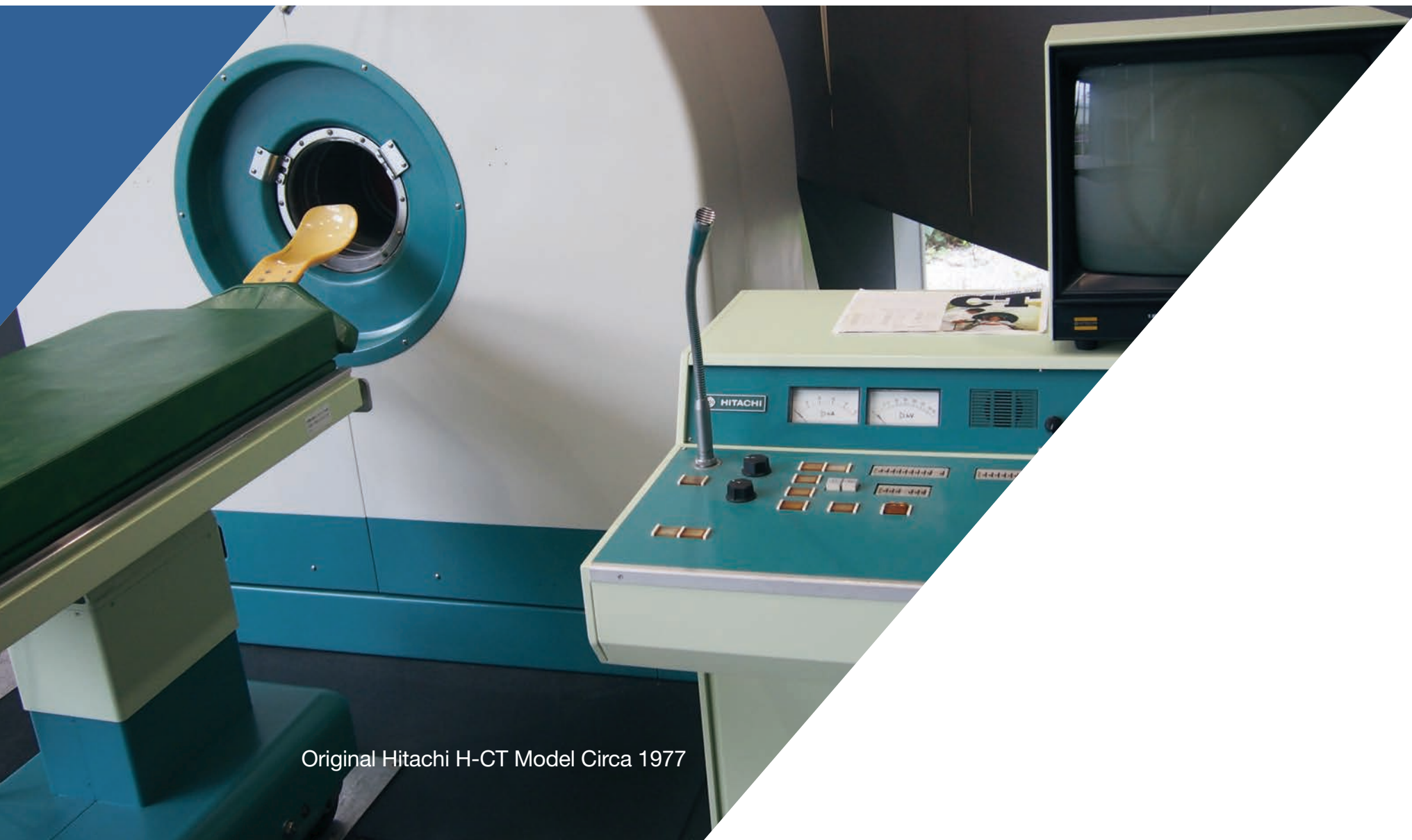


* In clinical use, dose saving features may reduce CT patient dose depending on the clinical task, patient size, anatomical location and clinical practices employed. Consultation with a radiologist and physicist are recommended to determine the appropriate dose needed to obtain diagnostic image quality for a particular clinical task.

Hitachi's Landmark Design

Hitachi created the SCENARIO View (View) with practical innovations that better address the pressing needs of patients and the majority of CT providers for both their in and out patient services. Versatile and patient friendly, the View is built on more than 40 years of experience in Computed Tomography. Worldwide, Hitachi has delivered over 14,000 CT Systems.

CT's History



Original Hitachi H-CT Model Circa 1977

Computed Tomography's History

CT was first presented in 1972 at the British Institute of Radiology Meeting. Catching the attention of leading US Radiologists, these thought-leaders purchased early systems for their own US academic centers. The first EMI CT systems took nearly 10 minutes to scan and reconstruct each thick grainy slice using a primitive computer with other vacuum tube electronics. And CT imaging then was only possible for the top portion of the head.

CT has advanced over nearly 50 years, technically and clinically, in a "Moore's Law" like fashion that equals computer capability advances. Numerous CT performance improvements have occurred that exceed 1 billion fold.**

In those same 50 years US Healthcare delivery has also transformed to better serve patients with heightened emphasis on diagnostic speed and accuracy together with powerful patient experience and cost management drivers. CT has played a vital role in this transformation.

With Hitachi's core commitment to Innovating Healthcare, Hitachi developed the View to be not just another "NEW" model, but rather, a powerful product achievement that addresses the needs of the majority of CT providers. The View sets a high benchmark for dose reduction,* image quality, versatility, reliability and affordability. Hitachi is well qualified to meet this challenge with its combined expertise and experience as a recognized worldwide electronics leader, early CT pioneer and with Hitachi Healthcare Americas more than 30 years direct business presence in the US Imaging Market.



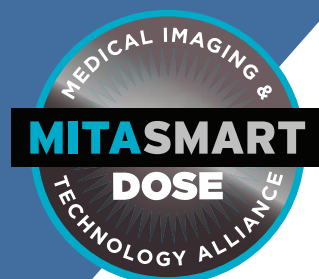
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SCENARIA View

Quality

The View is an outstanding CT for Radiology Departments, ED's and Outpatient locations that delivers a unique synergy of:

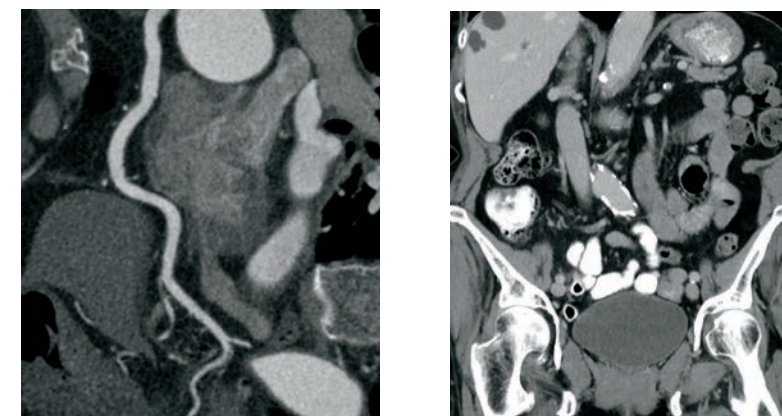
- High Image Quality with Lower Dose*
- Versatility
- Affordability
- Reliability



High Image Quality & Workflow

The View employs 64 discrete detector/electronics channels over 40mm detector coverage for rapid true 64 slice thin-slice imaging and reconstructs up to 128-slices per scan rotation.

Sub-millimeter slice capabilities optimize finely detailed images for small lesion and vessel assessment, while metal artifact reduction capabilities enable orthopedic exams without objectionable metal induced artifacts.



Versatile Capabilities

The View is a powerful premium performance CT solution providing high image quality and dependable routine application capabilities with advanced clinical application options available for:

- 80mm Axial and 120mm Helical Coverage Shuttle Scan for Perfusion Exams
- Calcium Scoring and Advanced Cardiac CTA
- Interventional Needle Guidance
- Dual Energy Exams
- Available advanced 3D Visualization Servers and 2nd Console options

SCENARIO View

Advanced



Innovative View Advantages

The View is an outstanding workhorse product in every regard and differentiates itself vs. competing systems with important design and performance advantages.

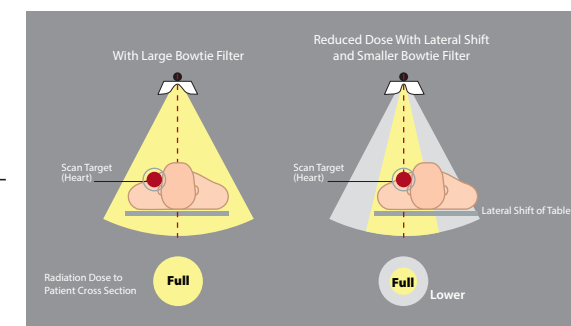
Superior Access and Scan Capability for Obese and Tall Patients

The View provides excellent bariatric (and tall) patient capabilities by combining a standard 550lb table weight capacity, a more spacious and patient friendly open 80cm gantry aperture, a more powerful 84kW Generator, providing up to 700mA operation and the multiple benefits of an automated lateral shift table. The View's table also provides extended coverage of up to 200cm to be able to scan a full patient length of 6.5ft.

Lateral Shift Table

Advantages of the standard Auto Lateral Shift Table that enables $\pm 10\text{cm}$ lateral shift (20cm total shift range) include providing easier and more accurate positioning of the patient's anatomy of interest at the scan Field of View's isocenter where spatial resolution can be better than off-center. And, used together with the scanner's small bow-tie filter dose* can be reduced vs. a non-centered patient.

Larger Bowtie Filter required for larger FOV coverage of off-center scan target



Smaller Bowtie Filter used with Lateral Shifting Table for smaller FOV scan of centered scan target



80cm gantry aperture



SCENARIA View

Technology

Key Technologies

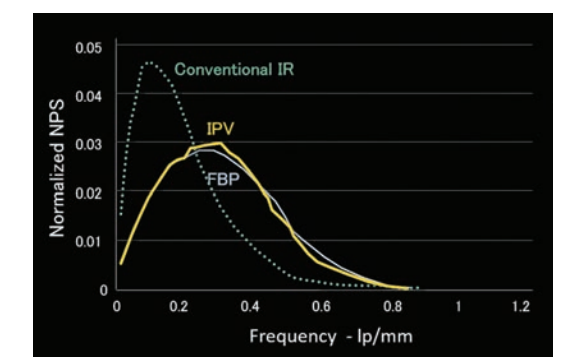
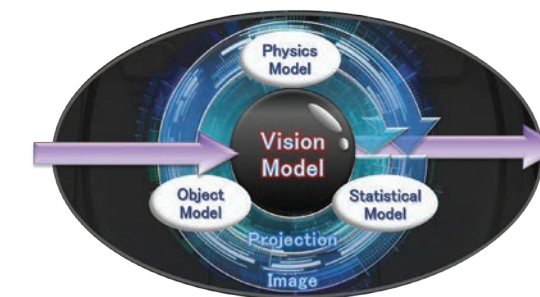
The View's enhanced clinical performance is driven by numerous technological advances that Hitachi has refined to create an outstanding CT System.

Intelli IPV – Iterative Reconstruction

IPV is Hitachi's Next-generation "vision modeled" iterative processing that provides dose reduction and overcomes a conventional IR weakness by IPV maintaining normal image texture that better matches the image texture appearance of Filtered Back Projection (FBP).

Utilizing IPV vs. conventional FBP reconstruction can provide**:

- Dose reduction up to 83% at the same image quality (low contrast detectability)
- Image noise reduction up to 90% at the same dose
- Noise reduction rate control according to the IPV level used
- Low contrast detectability improvement by up to 2.0X (100%) at the same dose
- Natural image texture appearance (the shape of noise power spectrum) similar to that of FBP, even if using higher IPV strength level



HiVision Detector

To further enhance image contrast detectability the View's new HiVision Detector integrates digital signal processing within each detector module to minimize electronic noise in the acquired attenuation data. HiVision reduces electronic noise by 25%.

** Notes:

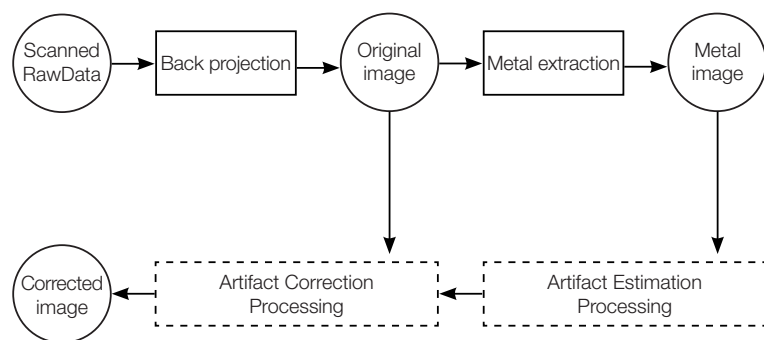
In clinical practice, the use of Intelli IPV may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. Low contrast detectability (LCD) and image noise were assessed using reference factory protocols comparing Intelli IPV and FBP, and the LCD measured in 0.625mm slices and tested using the MITA CT IQ Phantom (CCT189, The Phantom Laboratory), using model observer method.

SCENARIO View

Key Technologies

HiMAR Plus - Metal Artifact Reduction

HiMAR Plus enables orthopedic exams without objectionable metal induced artifacts, by correction of raw data.



Automated Cardiac

The View's advanced optional cardiac package provides automated features to ensure optimal pre-scan protocol selection and post-scan selection of the most informative cardiac phase images for enhanced clinical results and workflow. With available prospective step & shoot and retrospective dose-modulated ECG Gated acquisition, the View ensures high quality study results for a wider range of patients.

Compact Design

Building upon Hitachi's expertise as a leading micro-electronic designer, the View makes efficient use of limited room space and is comprised of only 3 system modules: the gantry, table and operator's console. There are no other CT system cabinets, enabling the View to fit into spaces that are smaller than previous CT designs.



Eco Friendly

With consideration for minimum resource usage, the View incorporates Eco-Mode that can reduce power consumption by up to 70% during non-use shifts with programmable predetermined wake-up and warm-up time.

Advanced 3D Visualization capabilities

The View is compatible with a wide range of optional Advanced 3D Visualization Server solutions and can be seamlessly embedded in your current information network. And, Hitachi offers market leading 3D visualization solutions that can enhance the tools you use today.

Comfort



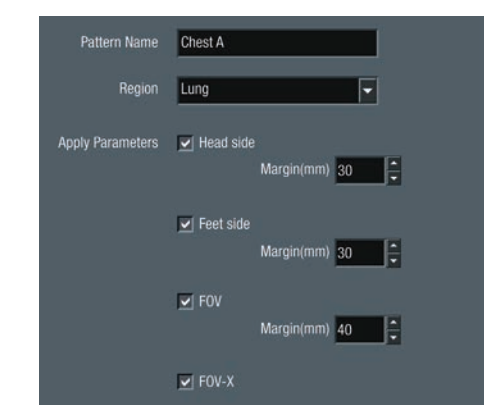


Excellence

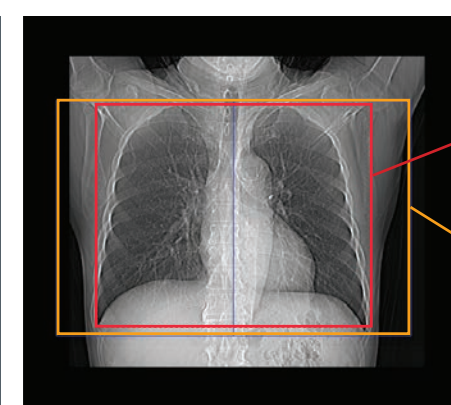
SCENARIA View

Ease of Use

With *SynergyDrive* enhanced workflow, the View dramatically reduces examination time by automating and shortening the operator's procedure steps. AutoPose, using an automated algorithm, automatically suggests the scan range and dimension based on protocol and patient's size observed during the Scanogram (Scout) scan.



AutoPose setting screen



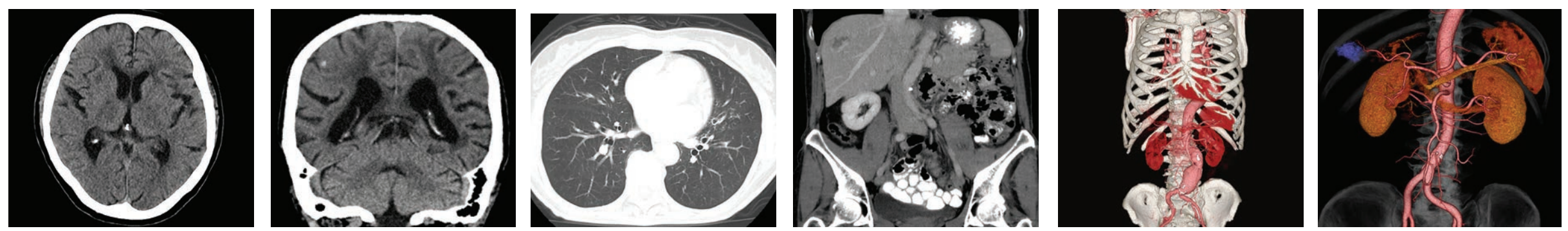
Automatic recognition of region
Margin Setting

Region auto selected

Broad Clinical Applications

The View includes a wide range of customizable adult and pediatric protocols for lower dose acquisition. The View includes XR-25 Dose Check control and is also XR-29 Compliant. It also has FDA 510(k) Cleared Indication for Use for low-dose CT lung cancer screening.

Hitachi's patient focused philosophy is built into the View. Its leading dose reduction and awareness features put the patient first without compromising image quality - meeting ALARA (As Low As Reasonably Achievable) standards.



SCENARIO View

Unmatched Customer Support

The View is backed by Hitachi's unmatched support capabilities including 99% Uptime guarantee, comprehensive in-service training, unlimited scheduled applications revisits during warranty & full service contract period. It also includes our advanced marketing programs to help you get the most out of your purchase.

Seamless Site Planning and Installation

With a smaller gantry/table footprint, the View is the ideal choice for replacing your older CT with little or no reconfiguration of room space. You can depend on your Hitachi site planning expert to be there and guide you every step of the way.

On-site/Off-site Training

Comprehensive on-site applications training with no-charge follow up visits come standard with every Hitachi warranty and full service contract. So, when you need to update the skills of your existing workforce, or train new employees, the experts at Hitachi will do the training without added financial burden to your facility. Our on-site and corporate facility training programs (HITS) are continually revised so that the latest dose reduction strategies and best operating practices are always at the forefront of your CT experience.



99% Uptime Guarantee

Expect reliability. Your system is running 99% of covered time during every quarter or you receive additional service at no cost.

Sentinel™ Remote Service

Your warranty and service contract comes with remote service support including diagnostics, image review, raw data analysis, read error messages, monitor operating parameters and more.

Support



Innovating Healthcare, Embracing the Future

From our founding in 1910, Hitachi has aspired to fulfill our mission: to contribute to society through the development of superior, original technology and products. By integrating the infrastructure and information technologies it has created more than a century of experience.

Hitachi delivers innovation to customers and society through the fusion of operational technology and informational technology with its products – this is the strength and uniqueness of Hitachi. We accelerate collaborative creation with customers through the advanced Social Innovation Business to deliver innovations that answer society's challenges. With our talented team and proven experience in global markets, we can inspire the world.

When we come together, thinking on a global scale, we can create novel solutions to social problems. Our Social Innovation Business resolves issues faced by society and customers by combining advanced IT with infrastructure technologies, allowing us to provide total solutions. Our world is changing, and Hitachi is committed to change with it.



Innovation

Social Innovation

Hitachi regards healthcare as being a crucial part of the social infrastructure that will support society in the 21st Century and has therefore made the healthcare business a key pillar of its Social Innovation Business. Hitachi combines its collective strengths with IT to provide innovative technologies and systems, solutions and services in the healthcare field. In doing so, Hitachi will respond with innovation to the challenges facing society.

We aim to create a happy society in which everyone can enjoy a secure and safe way of life. Driven by this objective, Hitachi has begun taking on new challenges with a view toward creating healthcare innovation throughout North America.



SCENARIA View

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