

HITACHI
Inspire the Next

SCENARIA™
Advanced 128



SCENARIOIA™

Advanced 128

128 Slice Capability

Enlarged 75cm Aperture

Thin Gantry Profile – 88cm

Intelli IP Advanced, Iterative Reconstruction

IntelliCenter Auto-Lateral Shifting Table, up to 16cm Range

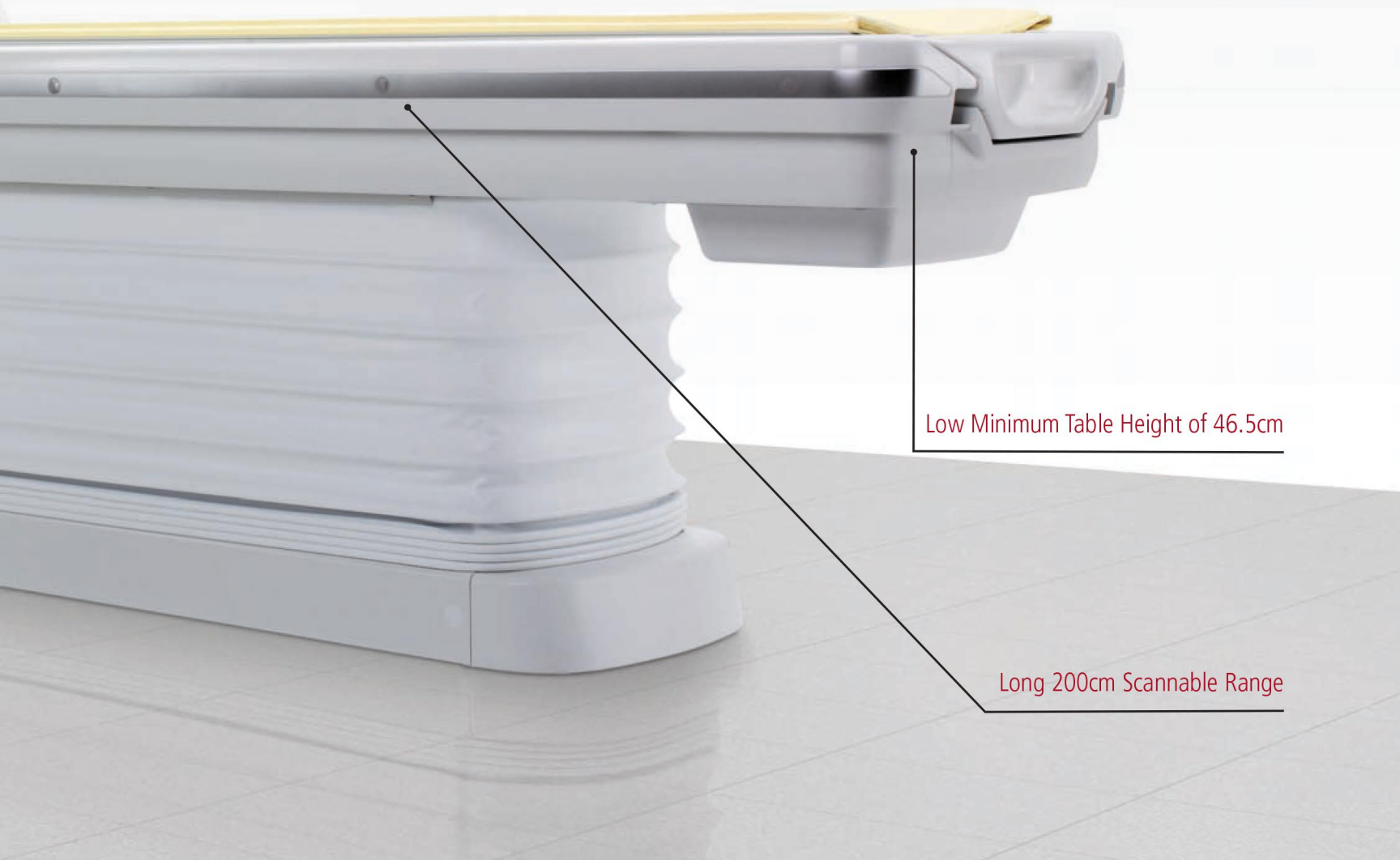
High Capacity Table, up to 506lbs

* 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.

The Next Generation SCENARIO CT is Here.

The SCENARIO, Hitachi's scalable CT platform delivers lower dose technologies,* enhanced patient access and increased workflow speed in an advanced 128-Slice CT system.

Over 30 years of CT development and manufacturing expertise and 12,000+ CT installations worldwide come with Hitachi's next generation CT, SCENARIO Advanced 128. Experience a higher level of clarity for routine and cardiac applications, improved iterative processing technology (Intelli IP Advanced), enhanced workflow and Hitachi's latest dose reduction features.



Low Minimum Table Height of 46.5cm

Long 200cm Scannable Range

The Advantages of Hitachi's SCENARIA Advanced 128 Are Clear.

Experience SCENARIA's Latest Capabilities.

Intelli IP Advanced

A standard feature of the SCENARIA Advanced 128 Platform, Intelli IP Advanced is Hitachi's latest iterative reconstruction technology.

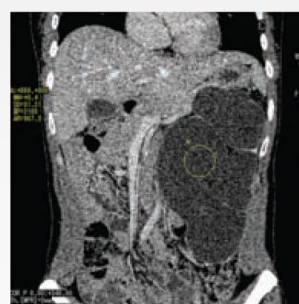
128 Slice Imaging

SCENARIA can provide 128 slices per rotation for improved multi-planar reconstruction (MPR) visualization.

PowerRecon

With PowerRecon, a standard feature, the SCENARIA reconstruction speed doubles to up to 35 images per second** — providing the rapid workflow capability to meet your evolving imaging needs.

Filtered Backprojection



SD 31.21

Intelli IP Advanced



SD 14.30

Example of 54%
SD Reduction vs FBP

Scan Speed 0.4s/rot, CTDIvol 9.1mGy, DLP 480mGy-cm, Effective Dose 7.2mSv



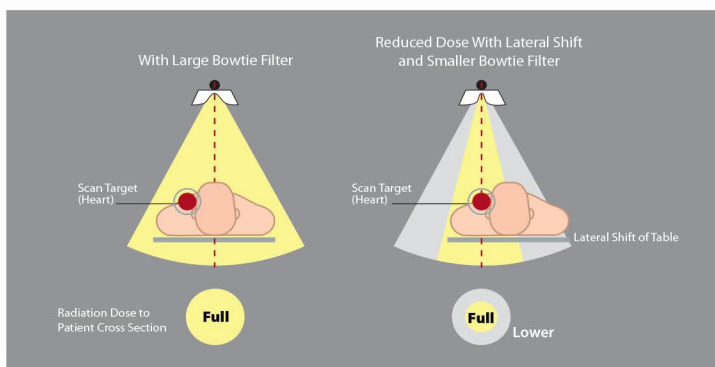
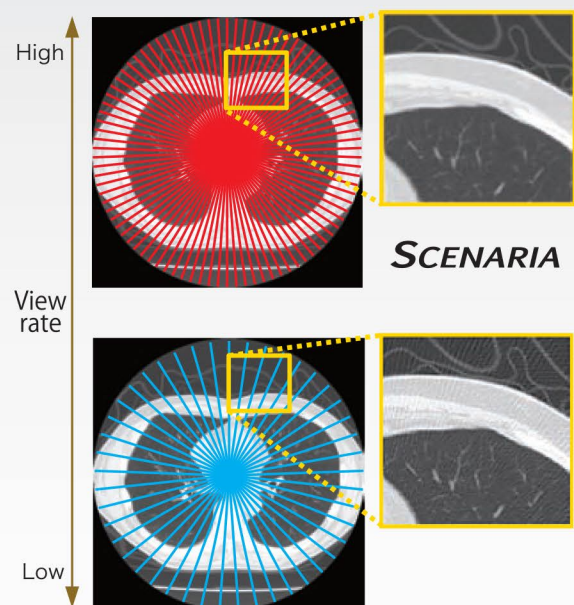
** When compared to the SCENARIA 64 slice CT.



0.35 Second Scan Speed with Higher Density Ray Sampling

With a high density view rate of 2,880 data samples per detector element per second, the SCENARIA Advanced 128 enhanced data collection rate over the 360° rotation provides improved data density on the periphery of the Field of View. Making the shortest 0.35 second scan time available for a wide range of abdominal and long coverage exams in addition to cardiac exams.

This standard feature on the SCENARIA 128 Advanced also enables scanning at a higher pitch resulting in faster exam coverage at a lower dose.



Larger Bowtie Filter when larger Field of View coverage is needed

Smaller Bowtie Filter with Auto-Lateral Shifting Table for smaller Field of View coverage and reduced dose

Auto-Lateral Shifting Table

With the SCENARIA Advanced 128, the task of centering the patient laterally is simplified. Precisely center the heart or other anatomy in the Field of View automatically from the gantry or operator consoles. And take advantage of improved spatial resolution and lower dose.

Achieve Improved Spatial Resolution with Lower Dose using the SCENARIA Advanced 128 Auto-Lateral Shifting Table.



Up to ± 8 cm lateral shift from center line

An enhanced experience for the patient. And a faster, easier and more accurate path to diagnosis.

The SCENARIA Advanced 128 Auto-Lateral Shifting Table comes standard, allowing you to easily position and accurately center the anatomy of choice at the iso-center without having to physically reposition the patient. Spatial Resolution is improved. And dose is reduced by employing a beam-shaping bowtie filter that narrows the beam intensity to the iso-center of the heart or other anatomy of interest.

The Auto-Lateral Shifting Table can also accommodate a wide variety of patients, including bariatric and elderly, with a weight capacity of 506 lbs, scanning length of 200cm and low 18in minimum table elevation.

SCENARIA[™]
Advanced 128

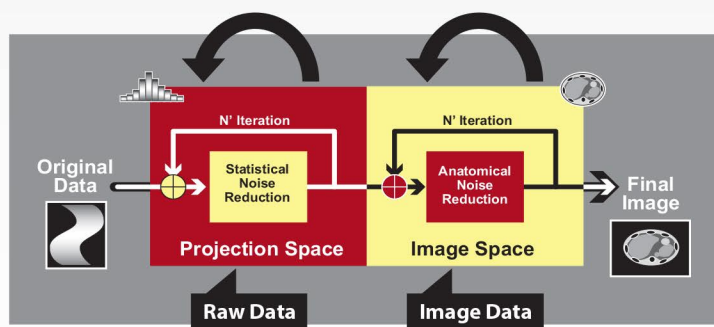
Dose Reduction – A Primary Focus of Hitachi’s SCENARIA Advanced 128.

A full suite of enhanced features are included with the SCENARIA Advanced 128 system.



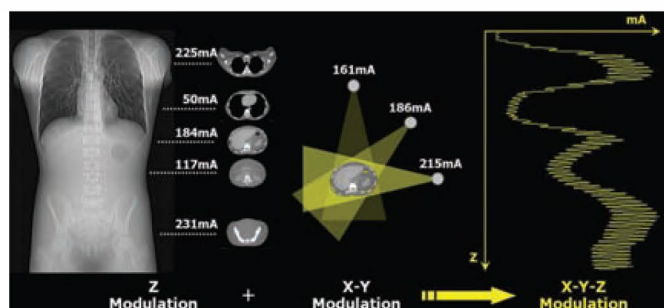
Intelli IP Advanced

Intelli IP Advanced is Hitachi’s latest proprietary iterative processing engine that produces higher quality images through the use of adaptive iterative reconstruction processes, in both projection and image space.



Intelli EC

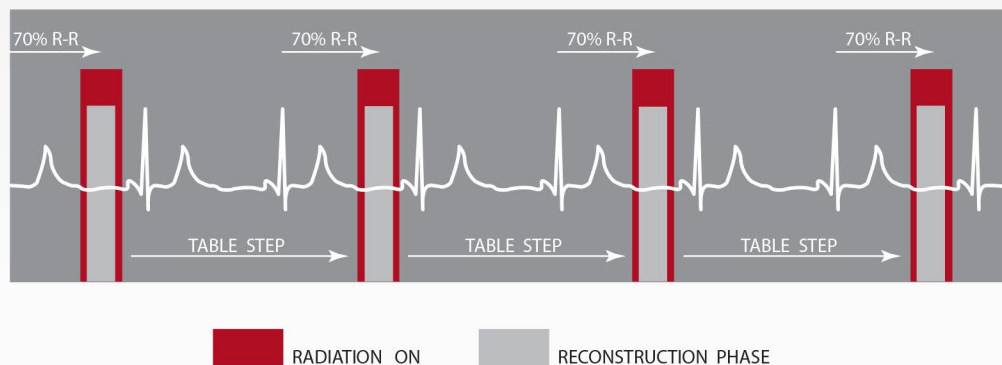
Intelli EC (Automatic Exposure Control) is Hitachi’s proprietary 3D mA modulation technology that automatically modulates mA to lower individual patient dose levels depending on patient anatomy and size. mA modulation occurs both in the x, y plane as the tube rotates and over the patient’s z-axis as the table moves. Intelli EC can be set to provide real-time control of mA, to achieve a constant Noise Standard-Deviation in the resulting images.





Axial Snap-Shot Imaging

Helping reduce dose in Cardiac CT exams, this feature pulses the X-ray “on” only during a phase of the cardiac cycle using prospectively gated step-and-shoot cardiac scanning – reducing radiation dose.



Multi-Bowtie Filters

Provide the ability to reduce radiation in areas outside the scan field of view.

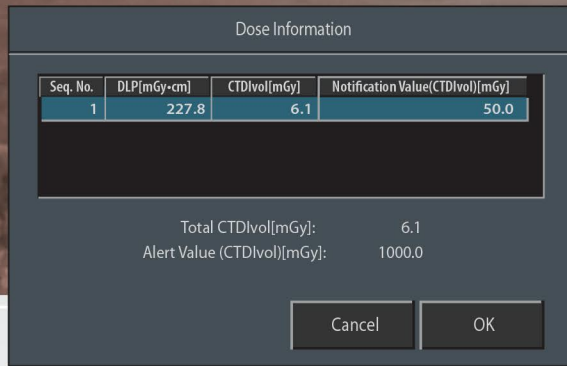


Reduced kV Imaging

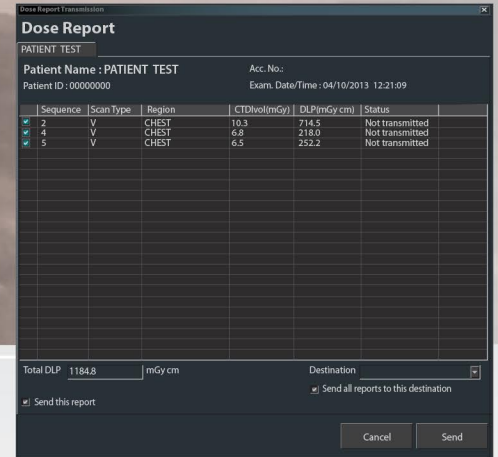
Delivers the flexibility to support scanning at 80, 100, 120 or 140kVp. This SCENARIO Advanced 128 feature can be adjusted to the lowest appropriate kV for the individual patient’s size, thereby lowering the dose to the patient.

All Hitachi protocols provided are reviewed and optimized by HMSA’s Protocol Committee to ensure ALARA practices are met.

SCENARIA 128 Advanced Dose Awareness Features Provide Greater Safety to Your Patients.



CT Dose Check



DICOM Dose SR



CT Dose Check

Based on predetermined reference dose levels, the SCENARIA Advanced 128 can notify the operator during exam protocol set-up when reference dose levels will be exceeded. Thereby minimizing ordering instruction errors and unintended operator settings while assuring reasons are considered for the dose level selected before the scan begins (Per NEMA Standard XR-25 and XR-29).



Dose SR (DICOM Dose Structured Report)

Send a DICOM standardized dose report for each CT exam to your PACS and/or national or local dose registries affiliated with your facility. Thus archiving standardized dose reports and facilitating research and comparison of actual dose data for similar exams across multiple institutions to help continuously refine dose appropriateness guidelines (Per NEMA Standard XR-29).



Simple Dose Report

The Simple Dose Report provides dose reporting information as a secondary capture in DICOM image format making it easily accessible whenever and wherever the image series is viewed.



SCENARIA complies with MITA/NEMA Smart Dose Standards XR-29.

SCENARIA™
Advanced 128

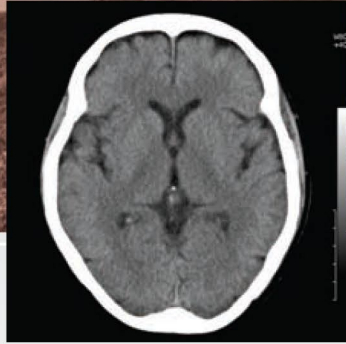
Simplicity, Speed and Clarity For All Your Routine Applications.

The SCENARIO Advanced 128 comes standard with a premium feature-set to enhance routine clinical application capabilities.

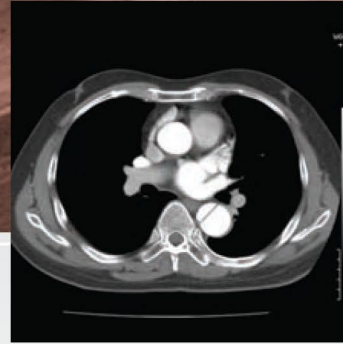
Take advantage of Hitachi's enhanced CT technologies to quickly and efficiently complete your routine applications without compromising image quality.

- Long Scan Coverage – up to six feet, five inches (200cm)
- Heavy Weight Capacity Table – up to 506 lbs (230kg)
- Rapid 0.35 Sec. scanning that provides 2,880 data samples per detector element per second
- High pitch scanning (up to 1.578) to help reduce patient dose and promote shorter exam times
- Thin 0.625mm slice thickness with 40mm coverage per rotation

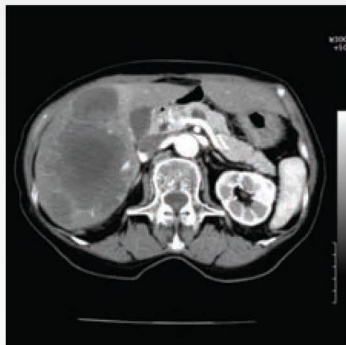




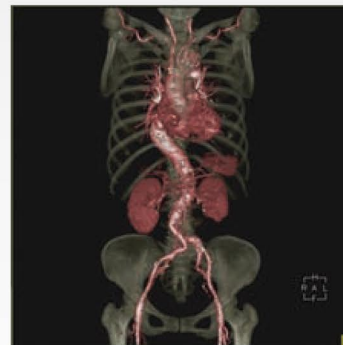
Neuro



Chest



Abdomen/Liver



CT Angio



Coronal MPR



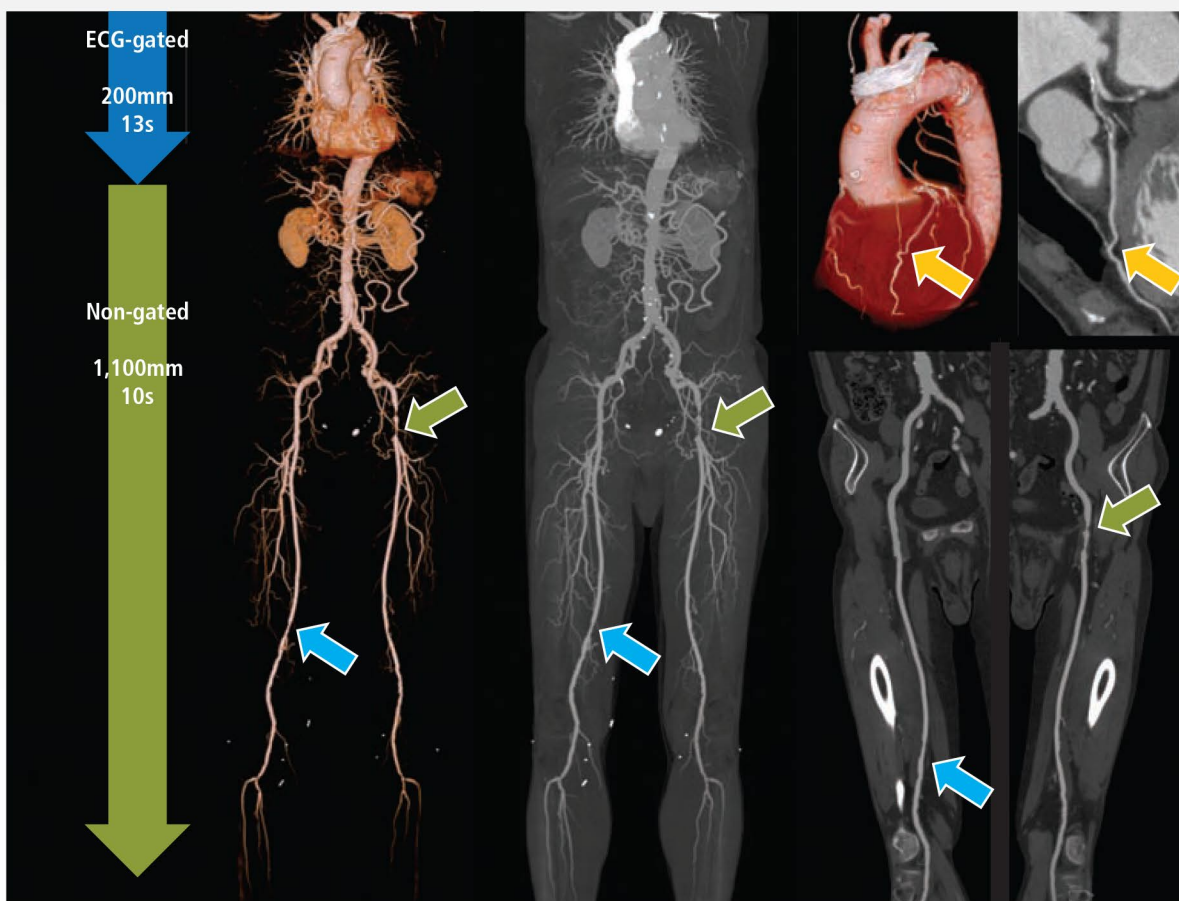
Orthopedic

Hitachi's latest enhanced CT technologies quickly and efficiently complete your routine applications without compromising image quality.

Take Advantage of an Expanded Suite of Cardiac CT Features.*



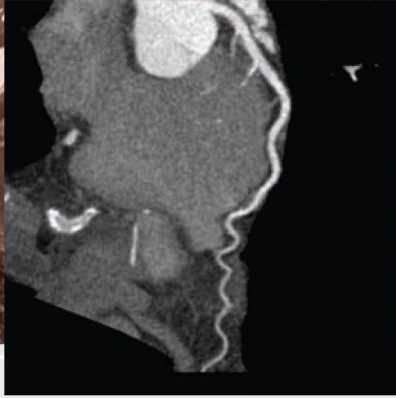
Combination scanning mode —
single acquisition gated and non-gated scan.



Single acquisition gated and non-gated scan enables coronary artery, aortic and peripheral vascular evaluation with one breath hold. With 0.35 second scan speed throughout, the complete 1.3 meter coverage exam time is just 23 seconds.

Provides an excellent planning tool for Transcatheter Aortic Valve Implantation and Replacement (TAVI / TAVR).

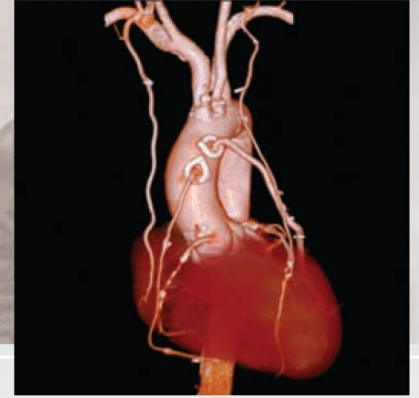
*Cardiac package is optional.



sub mSv Prospectively gated scan



RCA Plaque Analysis



Post – CABG

Dependably capture clear, concise information of the heart, over a wide range of heart irregularities.

SCENARIA Advanced 128 incorporates the latest retrospective and prospective ECG Gated acquisition technologies along with sophisticated protocols needed to achieve CCTA and Calcium Scoring data in a single exam. And combines them with powerful, advanced features you need to perform cutting-edge 128 slice Cardiac CT scans.

Cardio Conductor is an easy-to-use tool for the operator that automates scan parameter selections based on ECG and breath hold rehearsal, thereby enhancing workflow, improving successful exam outcomes and decreasing overall exam times.

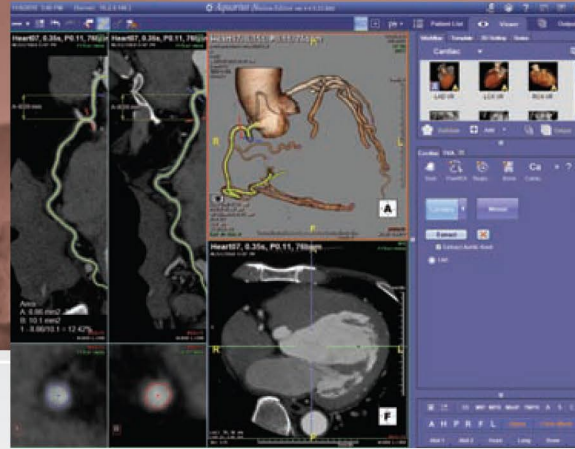
Cardio Harmony automates post-scan “best” recon phase selection by automatically analyzing image motion during the scan in 1% ECG phase increments and then recommending the phases with least motion and clearest results.

ECG Editor provides the ability to edit the acquired data after scanning, enabling motion free images even for patients with irregular heartbeats and image mis-registration.

Some Cardiac Images shown require post-processing using optional TeraRecon 3D visualization solution.



Advanced 3D Visualization and Analysis Capabilities with a Powerful Thin Client Solution.



iMtuition™ Server by TeraRecon provides cutting-edge rendering power, automation and versatility.

Hitachi's partnership with TeraRecon allows you to integrate innovative 3D visualization technology with the SCENARIA Advanced 128 CT. Take advantage of industry leading 3D rendering, automation and applications with rapid clinical analysis work tools on a single system or enterprise-wide.

Hitachi's Directlink interface provides exceptional study transfer speeds by easily linking SCENARIA directly to a nearby TeraRecon 3D visualization server without the need to go through your organization's IT networks.

Whether you need a dedicated server or enterprise-wide solution, the combination of TeraRecon and Hitachi is the answer.



Rapid Workflow with an Ergonomically Designed System.



Wide aperture and ultra-wide tabletop resulting in a more comfortable patient experience

SCENARIA Advanced 128 delivers ease-of-use with superior patient comfort.

The SCENARIA Advanced 128 combines enhanced ergonomics with Hitachi's improved workflow processes and technologies resulting in clear image performance, diagnostic confidence and patient comfort:

- Rapid table movement (up to 200mm per sec.)
- Comfortable 47.5cm table top
- Larger 75cm aperture for easier scanning of bariatric patients
- Strategically placed bilateral operator control panels on the gantry
- Slim gantry depth of 88cm
- Programmable Direct Injector Interface
- Adult and pediatric pre-defined protocols
- Dose awareness features
- Intuitive, easy-to-use interface delivering simplified patient registration
- Automated Cardiac CT Applications – Cardio Harmony, Cardio Conductor, ECG Editing features

From start to finish, the SCENARIA Advanced 128 provides superior comfort for the patient. And the power, flexibility and ease-of-use you need.



Outstanding Support Services Complete Hitachi's 128-Slice CT Solution.

Exceptional imaging systems and lifecycle value are what imaging professionals have come to expect from Hitachi. The SCENARIA Advanced 128 is no different. We will always subscribe to a commitment of success in achieving your goals while offering the highest standard of patient care.

Seamless Site Planning and Installation

With a smaller gantry/table footprint, the SCENARIA Advanced 128 is the ideal choice for replacing your older CT with little or no reconfiguration of room space. And you can depend on your Hitachi-expert site planner 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 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 on-line training courses are continually revised so that the latest dose reduction strategies and best operating practices of SCENARIA are always at the forefront of your CT experience.



Advanced Sentinel Remote Service

Your SCENARIA warranty and service contract includes remote system diagnosis providing the ability to remotely send an image, run diagnostics, look at raw data, read error messages, monitor operating parameters and more.

98% Uptime Guarantee

Expect reliability. Your system is running 98% of covered time during every quarter or you receive additional service at no cost.*

Flexible Service Options

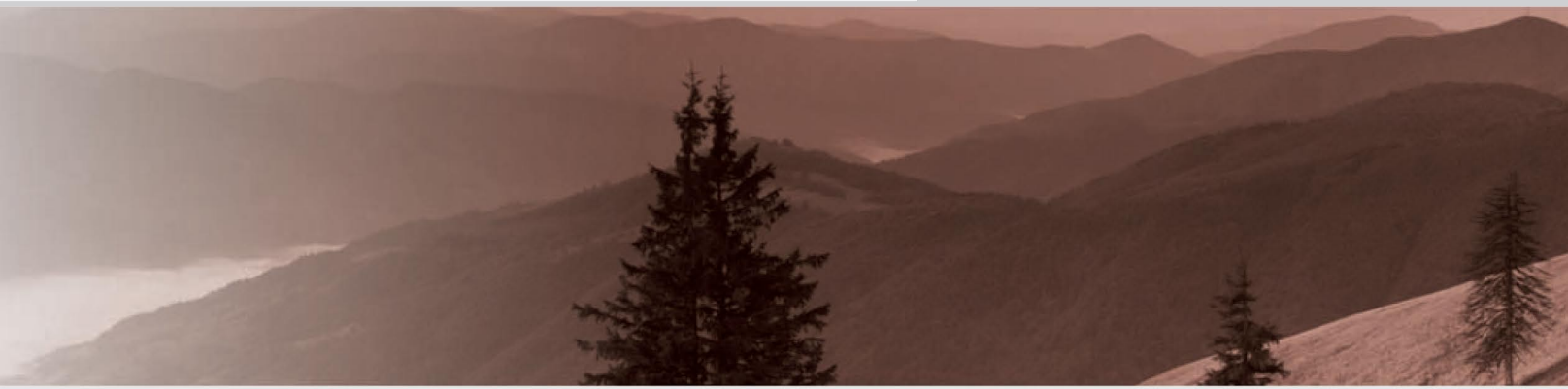
Every SCENARIA service contract comes with the flexibility to meet the needs and investment goals of your organization. From short-term, minimal service warranties to long-term, full-service contracts, we will see that you are taken care of from the first day to renewal and every day in between.

Marketing Assistance

Hitachi delivers comprehensive customer marketing support to help promote your facility to referring physicians and the local community. Patient Education Materials clearly differentiate SCENARIA CT from other diagnostic alternatives. And prepare patients for their CT experience. A comprehensive Marketing Planner includes press releases, photography, clinical examples, patient fact sheets and physician marketing pieces. All proven effective with Hitachi installations nationwide.

* See Service Maintenance Agreement terms.

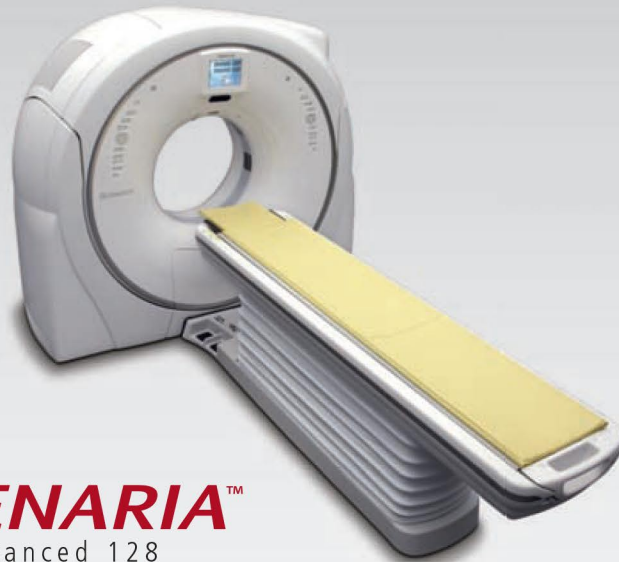
Putting Hitachi to Work For You.



Our Promise.

With 350,000+ associates worldwide and an unparalleled commitment to excellence, Hitachi is dedicated to ensure our equipment successfully contributes to the growth and profitability of your enterprise.





SCENARIA™

Advanced 128

Hitachi Medical Systems America, Inc.

1959 Summit Commerce Park
Twinsburg, Ohio 44087 USA
Tel: 330.425.1313 800.800.3106
Fax: 330.425.1410
www.hitachimed.com

Hitachi Medical Corporation

4-14-1 Akihabara UDX
Soto-Kanda, Chiyoda-ku
Tokyo, 101-0021 Japan
www.hitachi-medical.co.jp

HITACHI

Inspire the Next¹

© 2013 Hitachi Medical Systems America, Inc.

iNtuition is a trademark of TeraRecon, Inc. All rights reserved.

0513/2000/DM# 90876-V1

Printed in U.S.A.

Hitachi reserves the right to change specifications described herein without prior notice. This document provides general technical descriptions of both optional and standard features.



800-356-3388
978-374-6371
Fax – 978-521-2214

49 Newark Street
Haverhill, MA 01832
sales@associatedxray.com
www.associatedxray.com