

XR-CT, VAMC AMARILLO, TX

PO# 504-B27020

Product

**SCENARIATM' SCENARIAIm Advanced 128 CT VA Promo
128 CT VA**

SCENARIATM 128 SCENARIATM Advanced 128 CT VA Promo (Includes 12 months total warranty)
CT VA PROMO

SCENARIATm Advanced 128 CT VA Promo

SCENARIATN Advanced 128 CT

SCENARIA Advanced 128 is the premium model within the scalable SCENARIA platform, featuring 128-slice capability and Hitachi's latest Iterative Reconstruction capabilities combined with a fast 0.35-second scan time enabling shorter breath-holds and reduced patient motion artifacts without compromising image quality. Sub-millimeter slices optimize fine detail images for small lesion and vessel assessment. And the enhanced technology in SCENARIA Advanced 128 facilitates your selection of optimum protocols for high image quality with lower dose acquisition.

SCENARIA Proprietary Technologies

2D-ASC (Anti-Scatter-X-Ray Collimation) reduces detected scattered radiation.

Hitachi's advanced and proprietary CORETM image reconstruction algorithm supports higher pitch scanning for reduced radiation exposure.

Intelli IP Advanced is Hitachi's latest Iterative reconstruction engine featuring more sophisticated algorithms to perform advanced iterative reconstruction processing in both Projection and Image Space

The 0.35 second scan time with higher density ray sampling rate of SCENARIA provides superior image detail

Scan Parameters

Rotation times (seconds): 0.35, 0.4, 0.5, 0.75, 1.0 and 2.0

Data collection speed: 2,880 views per second

128-slice Capability for improved Z-axis visualization.

Minimum Slice thickness (mm): 0.625

FOV (mm): 20-500

Max scan range (in/mm): 79/2000

Max scan rotations: 100

Volume scan pitch: 0.578 to 1.578

Scan Acquisition Types

- Scanogram with real-time display - P/A & Lateral
- Normal scan - axial mode
- Volume scan - helical mode
- Dynamic Scan Mode for Time Density Analysis

Image Quality*

- Spatial resolution: 17.18 Ip/cm @ 0% MTF, 50mm FOV*

- Contrast resolution: 2.5 mm @ 0.25%, 160mm FOV*

* with Hitachi Performance Phantom supplied with system

Protocols

- Pre-programmed emergency
- Pre-programmed default protocols for Adult and Pediatric Exams
- Limitless user-defined, customizable protocols

Note: All Hitachi default protocols provided are reviewed and optimized by HMSA's Protocol Committee to conform to ALARA practices.

PowerRecon

- Provides up to 35 images per second reconstruction speed for rapid workflow.

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DOSE REDUCTION AND AWARENESS TECHNOLOGIES

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

ALARA Tested Default Protocols

SCENARIA includes a comprehensive library of adult and pediatric default protocols that are the basis to begin scanning with the system and can be amended to add protocols meeting specific clinical requirements. SCENARIA default protocols are optimized to provide diagnostic image quality following ALARA principles. Hitachi Medical Systems America's protocol committee consists of professionals in Radiation Physics, CT Applications and CT Technology working together to accomplish this balance. A thorough process has been implemented to ensure the features of the SCENARIA are utilized and optimized to provide a lower dose to the patient while ensuring diagnostic quality of the images for medical staff.

CT Dose Check

Notifies the operator during exam protocol set-up when reference radiation dose levels will be exceeded based on predetermined reference dose levels recommended by The AAPM and/or that can be selected by your facility. This Dose Check monitoring meets the 2010 Standard (XR-25) published by The Medical Imaging & Technology Alliance (MITA).

DICOM Dose Structured Report (Dose SR)

Creates DICOM Standard format dose report for each SCENARIA patient examination and enables submission of the reports to your PACS system and/or to dose registries.

Intelli EC

Automatic 3D mA modulation to ensure x-ray dose efficiency and consistent image quality throughout the exam, compensating for patient anatomy and size in the x, y and z planes. mA modulation is based on maintaining stable noise Standard Deviation (SD mode).

Predict Scan

Monitors contrast uptake to a user-selectable threshold value and automatically initiates the scan for optimized image contrast at minimum radiation dose and reduced injected contrast volume.

Automatic Lateral Shifting Table

Enables lateral table shift of up to ± 80 mm (up to 160mm total shift range) by manual control or automatic Scanogram selection to precisely center the organ of interest.

Multi-Bowtie Filters

Reduces radiation in areas outside the scan field of view.

Reduced Kv Imaging

Enables lower kV selection and dose based on individual patient size

- 80kV
- 100kV
- 120kV
- 140kV

SCENARIATIA Advanced 128 CT VA Promo

GANTRY DETECTOR SYSTEM

SCENARIA Defines High Performance with Solid Design and Technology.

Patient comfort and throughput is a driving signature of Hitachi. SCENARIA personifies this with a larger, more accommodating aperture and lateral moving patient table. Now elderly and large patients can approach SCENARIA without apprehension. A multi-function LCD display strategically placed in the Gantry allows the technologist to precisely control positioning and set-up functions.

Gantry

- Gantry aperture: 75 cm
- Gantry tilt: ± 30 degrees
- Gantry Display: 10.4 inch LCD Multi-function for ECG, status monitor or patient instructions
- ECG Data Input
- Scan localizer: Laser marker (at preparatory position and scan position)
- Gantry, table controls: emergency stop, start/stop scan, home, preset, move to scan plane, table reset, tilt, laser alignment lights, demo breath hold buttons/lights, table in/out, table up/down, collision sensor
- Foot pedal controls: home, preset
- Breathing lights
- Patient communication: intercom, auto-voice

X-ray Detector

- Type: Solid state ceramic
- Number of detector elements: 64 x 888
- Detector output: 64 x 888

X-ray Tube

The x-ray tube combines high power with high durability for long-term image quality. A fast tube cooling rate minimizes inter-scan times to promote faster scanning and throughput. No chiller is required simplifying the installation process and enhancing system reliability.

- Anode heat capacity: 7.5 MHU
- Anode max. cooling rate: 1,386 kHU/min
- Tube cooling: Oil/Air
- Focal Spot (mm): 0.7 x 0.8; 1.2 x 1.4

X-ray Generator

Integrated with the performance characteristics of the high-heat unit X-ray tube, the generator delivers the optimal X-ray power per protocol.

- Type: High-frequency inverter control
- Output: 72 kW
- kVp selection: 80, 100, 120, 140kV
- mA selection: 10-600 mA (5mA steps)
- Max tube current: 600 mA (120kV), 510 mA (140kV)

Patient Table

The high-weight-capacity table accommodates a wide variety of patients without compromising comfort or throughput.

Lateral movement allows for precise centering. And the low minimum table elevation facilitates placement of disabled and elderly patients.

- Table top width: 19 in (475 mm)
 - Table length: 110 in (2805 mm)
 - Table weight capacity: 506 lbs. (230 kgs)
 - Horizontal accuracy: ± 0.25 mm
 - Vertical travel range: 18 in (465 mm) to 41 in (1,050 mm)
 - Tabletop travel: from 5 mm/sec to 200 mm/sec
 - Horizontal travel range: 83 in (2110 mm)
 - Lateral Slide motion:
 - Moving speed: 10mm/second
 - Shift range: up to ± 80 mm (right or left from center)
 - Manual control at Gantry. IntelliCenter™ provides selection of precise lateral position at Operators Console using AI!™ Scanogram
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SCENARIATM Advanced 128 CT VA Promo**OPERATORS CONSOLE AND IMAGE PROCESSING**

Clear logical layout allows simplified selection of complex clinical applications and protocols. A single wide screen display and system monitors facilitate multi-tasking at the console. From acquisition and reconstruction through post-processing, SCENARIO's operating console sets the bar for maximum efficiency.

- Display: single 24-inch LCD widescreen monitor
- Display resolution: 1920 x 1200
- Fully automated, interactive software platform
- Preprogrammed patient demographics and protocol selection
- Complete protocol-driven scan control
- Auto-archive
- Auto-film
- UPS - uninterrupted power supply for Operators Console and Image Processor.

Patient Registration

- Pre-registration
- Emergency registration mode

Image Reconstruction

- Slice thickness (mm): 0.625 - 10
- FOV (mm): 20 - 500, by 1mm step
- Reconstruction matrix: 512 x 512
- Image reconstruction time: up to 35 images/second, with PowerRecon
- Immediate image review
- CT number range: -32,768 to +32,767

Image Display and Analysis

- up to 1024 x 1024
- Multi-frame layout
- WW/WL
- Magnify
- Pan
- ROI
- Image Rotation
- Measurement
- Cine
- Edge Enhancement/Smoothing

Image Processing

- Multi-Planar Reconstruction (MPR)
- Maximum Intensity Projection (MIP)
- Minimum Intensity Projection (MinIP)
- Surface Rendering
- 3D Volume Rendering
- Auto MPR, automatic MPR processing selected from Scanogram

Network Capability

- IHE - SWF
- DICOM Modality Worklist (MWM)
- DICOM Perform Procedure Step (MPPS)
- DICOM Dose SR

Storage Capacity

- Images: RAID 1 Mirroring, 250 GB x 2 holds 200,000 images
- Raw data: 2TB holds >4,700 rotations
- Archive: 9.4 GB DVD (non-cartridge) holds approx. 16,000 images
- Also accepts DVD-RAM, DVD-R and CD-R/RW

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SCENARIA VASCULAR ANGIOGRAPHY PACKAGE

The strength of the SCENARIA Vascular CT Angiography capabilities lies in its advanced design that facilitates peripheral angiograms over a length of up to 200cm. This enables sophisticated run-off studies and trauma assessments to be performed with greater speed and coverage.

Some Clinical applications may require use of an optional workstation

TRANSFORMER/DISTRIBUTION/SCENARIA/V48M39T12EE

Dry Type Transformer

Standard Transformer Catalog Number: V48M39T12EE

Transformer Type: General Purpose Vented

3 PHASE, 112.5 KVA, 480 Primary Volts, 400 Secondary Volts,

150C Temperature Rise, Aluminum Winding Material, NEMA 2 (N3R w/opt'l weathershield) Enclosure Type, 60 HZ,

Frame 916A, Wiring Diagram 281B

Standard Values

K-Factor: 1

TAPS: 2@+2.5%, 4@-2.5%

NEMA ST20 Sound Level: 50

Nema TP-1 Energy Efficient: Y

Infrared Viewing Window: None

Field-Installed Accessories

Lug Kit: Not Included

SCENARIA ECG SCAN MODE PACKAGE

Retrospective and Prospective (Axial Snapshot) ECG Gated Scan Modes

IVY Biomedical Cardiac Trigger Monitor Model 7800H with ECG Impedance Measurement and ECG storage, with;

- Low noise ECG patient cable
- Radiotranslucent lead wires
- Roll Stand with Mounting Plate

Product	Description
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SCENARIA Advanced 128 CT VA Promo	
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MEDRAD STELLANT D POWER INJECTOR, PEDESTAL MOUNT

Stellant D is a dedicated, dual-head CT injector that injects both contrast and saline

- Saline Flush Capability for contrast efficiency, improved image quality and reduced artifacts
- Designed for complex CTA and Cardiac CT protocols
- Precisely times contrast delivery with real-time display of injection pressure
- Automated loading, filling and priming
- Stores and recalls up to 32 protocols
- Saline test injection to assess vein patency.

INJECTION SPECIFICATIONS:

- Pedestal Mount
- Flow Rate (range & increments) 0.1 to 10 ml/sec in 0.1 ml increments
- Volume (range & increments) 1 ml to syringe capacity in 1 ml increments
- Programmable Pressure Limit 200 ml syringe: 325 psi, 2241 kPa psi/kPa
- Scan Delay 0-300 seconds (5 minutes) in 1 second increments
- Pause 1-900 seconds (15 minutes) in 1 second increments
- Hold Maximum HOLD time is 20 minutes
- Syringes (Volume capacity) 200 ml sterile disposable syringe
- Maximum Number of Phases 6
- Maximum Number of Protocols 32

SCENARIA DICOM QUERY RETRIEVE

SCENARIA DICOM QUERY RETRIEVE

ALLOWANCE FOR RIGGING EXPENSES**RIGGING EXPENSES**

A Rigging Allowance for Reasonable and Customary Rigging Costs (not to exceed the quoted LIST PRICE) is included. Provided no monies are then due and owing to HMSA, upon receipt by HMSA of final system payment, HMSA will promptly pay the Rigging invoice on behalf of the Customer, up to the LIST PRICE quoted herein.

(Note: construction and shoring costs associated with providing a clear rigging path are the responsibility of the Customer)

SHIPPING AND INSURANCE TO CUSTOMER SITE**SHIPPING AND INSURANCE TO CUSTOMER SITE**

Includes domestic truck freight charges and transportation insurance; additional charges apply for international and ocean freight expenses.

BIO-MED TRAVEL & LODGING

Travel and Lodging for Bio-Med training sessions. This is for one person and the fare is based on flying coach class to Cleveland, OH.

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BIO-MED TUITION

Class participants will gain an understanding of all system components and functions, system adjustments, and scheduled maintenance activities. All technical documentation from the manufacturer will be provided during training. Training must be scheduled prior to the end of warranty period.

Upon completion of the training the trainee will be able to perform all scheduled maintenance and routine adjustments independently and troubleshoot system problems under the direction of an experienced engineer.

The classroom training is in Twinsburg, OH.

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1	SCENARIA ECG SCAN MODE PACKAGE
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1	MEDRAD STELLANT D POWER INJECTOR, PEDESTAL MOUNT (Price Includes Installation by MEDRAD)
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1	SCENARIA DICOM QUERY RETRIEVE
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1	CT Slicker Third party item
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1	SPECIAL ONE TIME VA DISCOUNT
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1	ALLOWANCE FOR RIGGING EXPENSES
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1	SHIPPING AND INSURANCE TO CUSTOMER SITE
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1	BIO-MED TRAVEL & LODGING
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1	BIO-MED TUITION
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