

FUJIFILM
Value from Innovation

Be visionary.



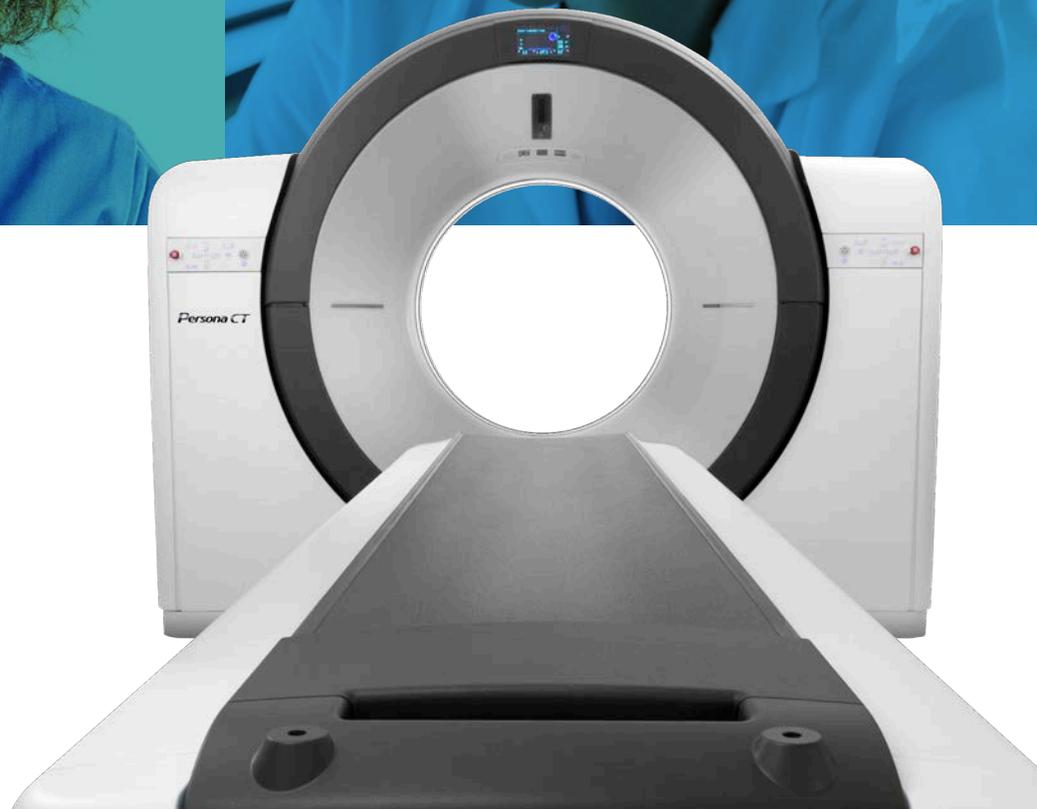
Computed Tomography

World's First 85cm Bore

64 or 128 Slice

Radiology and Oncology

Persona CT



Contents

Introducing Persona CT

Visionary Performance

Embrace the best.

- Advanced automated dose optimization by design
- Synchronized dose-lowering acquisition features
- Refined image processing with artificial intelligence

People-first Design

A workflow that works for you.

- 85 cm bore brings added comfort to every exam and patient
- Fast acquisition enhances patient treatment and experiences
- Easy operation improves workflow, speed, and accuracy

Reliability in Action

Experience you can rely on.

- Exceptional image quality and dose reduction made possible by low noise acquisition system and intelligent image processing
- Simplified design, engineered to maximize reliability and streamline maintenance

Flexible Scalability

Flex however you see fit.

- Advanced applications powered by Fujifilm's world-class Synapse 3D technology
- Versatility and protocols to expand to the latest growing procedures
- Amazing specialized 3D tools for coronary, brain, respiratory, orthopedics, whole body and more

Oncology Care

Specifications

Persona CT: advanced CT offering high-level solutions without compromise.

Persona CT is the result of an exciting collaboration between two trusted leaders in medical imaging worldwide. Fujifilm and Analogic have come together to deliver a new world-class CT solution. The Persona CT is uniquely engineered to help clinicians achieve consistently better clinical, operational and financial experiences.

Fujifilm has more than 85 years of medical imaging experience, delivering breakthrough innovations in medical imaging with a solid reputation for image quality, dose reduction, diagnostic visualization, and reliability.

Analogic brings more than 50 years of experience as a leading provider of diverse imaging technologies and as an OEM to CT systems and components of most of the leading brands on the market today.

With an unrelenting drive to discover what's next, we are committed to continually delivering value from innovation. Our advanced imaging technologies enable and empower physicians to see more, to help make the most accurate diagnoses to determine the best paths forward.

We are proud to introduce our latest contribution to radiology and oncology treatment planning, delivering innovations in CT system design and performance you have come to expect from Fujifilm.

Introducing Persona CT. A no compromise, well thought out, scalable solution, designed to simplify every step in the care and treatment of your patients.

- Big performance with a streamlined small footprint
- High-sensitivity image acquisition technologies
- Refined intelligent image processing
- Performance and reliability you can trust

Your patients and team depend on you. You can rest assured that we're working with you to streamline workflow and enhance confidence for both patient and provider, every step of the way.



Visionary Performance

Embrace the best.

For your staff and your patients, clarity is key. The Persona CT is equipped with best-in-class detector and system design, advanced image-processing technologies, higher rotational speed, and greater noise reduction. Everything is designed to provide unparalleled precision and accuracy for sharp, fast decision making.

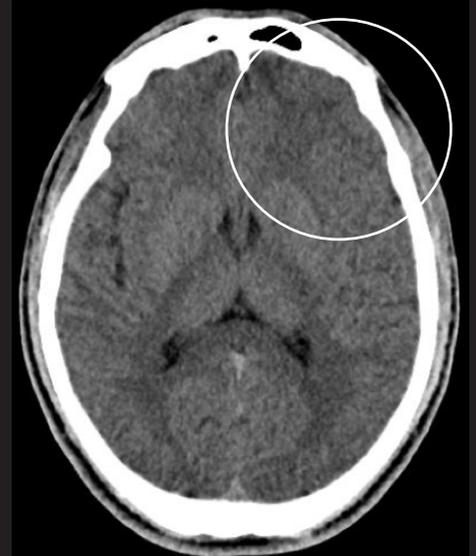
In an always-evolving market, step up to the forefront of what's next.



LISA⁵ 0



LISA⁵ 30



LISA⁵ 60

Higher Noise



Lower Noise

Smart Dose Management Using the Latest Technology

Built-in Technology

Dual Bowtie filters: Large and small bowtie filters ensure a uniform X-ray distribution across the detector for consistent radiation dose distribution and image quality.

Automatic focal spot selection: This technology intuitively adjusts protocol parameters to improve spatial resolution at lower doses.

Expanded kV ranges: With this feature, we facilitate dose reduction for lung screening and pediatric patients.

Scalable flex tile detectors: Our detectors are designed to reduce electronic noise, for better low dose imaging performance.

Refined image processing delivers exceptional images at low dose.

LISA⁵ with PixelShine (advanced iterative technology with deep-learning-based image solutions)

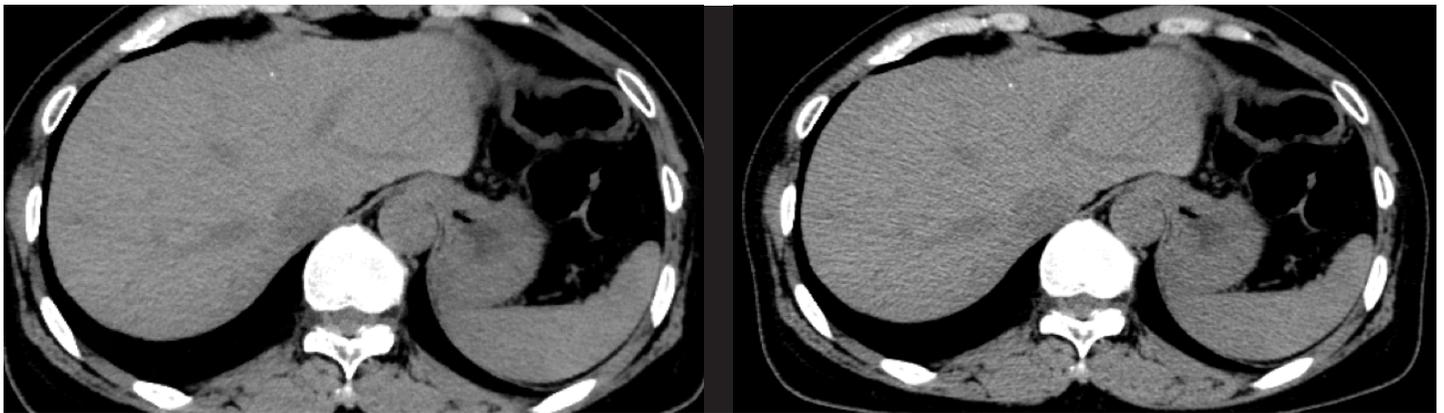
The combination of these advanced data driven algorithms is designed to intelligently adapt to reduce image noise and minimize artifacts, while maintaining or improving spatial resolution for more optimal dose and image quality performance.

- LISA⁵ is adjustable from 0% to 100%, with 0% corresponding to no image noise reduction and 100% corresponding to full strength image noise reduction.
- LISA⁵ can be pre-set to exam protocols, adjusted during an exam or applied as post processing.

4D mA Modulation

Automatic 4D mA modulation for dose optimization: Tube current is optimized in 3-dimensional directions (X-Y-Z) based on information about the patient size obtained from the localizer. This allows images to be acquired at a constant noise level over the entire scan region, optimizing the balance between image quality and exposure.

Next generation LISA⁵ reduces noise without blurring detail.



Current LISA⁵ low setting, 0

Next Generation LISA⁵ low setting, 30

Higher Noise



Lower Noise

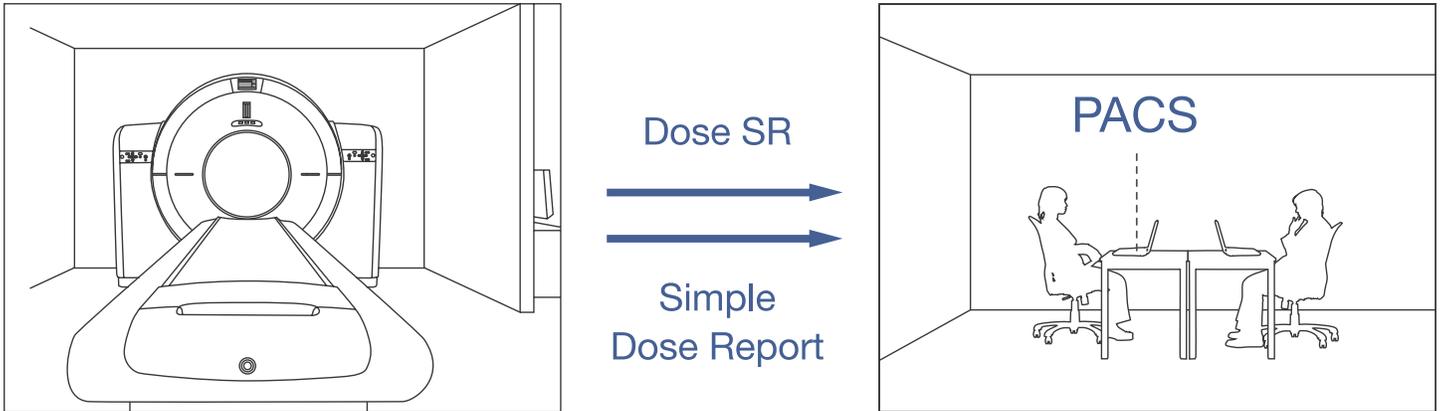
Fully-integrated into each protocol, fifth-generation LISA⁵ iterative reconstruction reduces image noise while maintaining or improving spatial resolution.

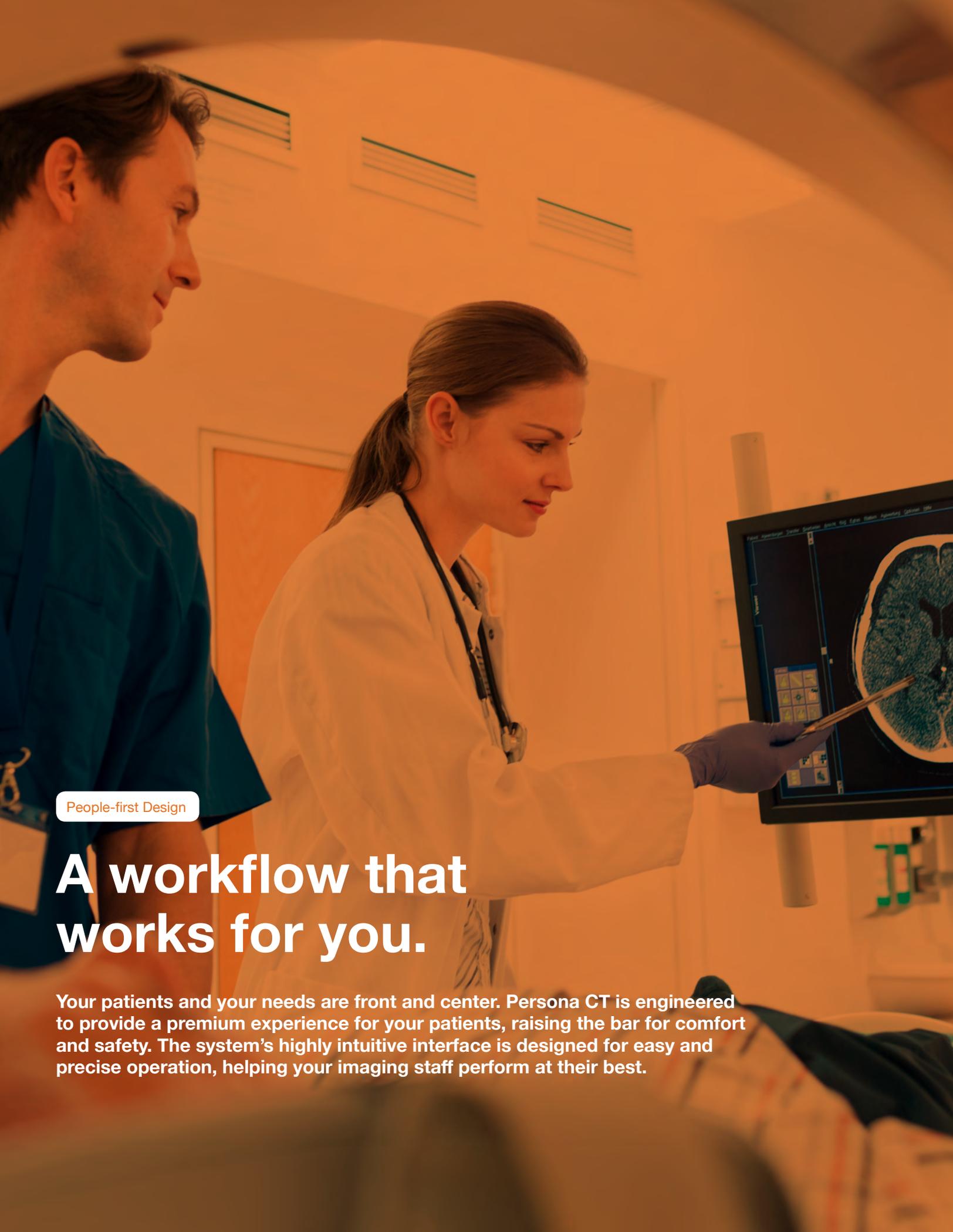
Available in strengths from 0 to 100, LISA⁵ settings can be built into each reconstruction to provide the desired look and feel for each series. As part of Fujifilm's comprehensive approach to radiation dose optimization, LISA⁵ plays a critical role in achieving ALARA dose levels.

In clinical practice, LISA⁵ may reduce CT patient dose depending on clinical task, patient size, and anatomical location. Consult with a radiologist and/or medical physicist to determine the optimal dose for preferred diagnostic image quality for the specific clinical task.

Dose Information

Display and Distribution: Managing patient dose information is critical; the system simplifies that information transfer. Simple Dose Report saves the data as a secondary capture and sends to PACS, while DICOM Dose SR sends the dose information as a structured report.



A male and female medical professional are in a CT scan room. The male professional, on the left, is wearing blue scrubs and looking towards the right. The female professional, on the right, is wearing a white lab coat and blue gloves, pointing at a monitor with a stethoscope around her neck. The monitor displays a brain scan. The room has a warm, orange glow and several air vents on the ceiling.

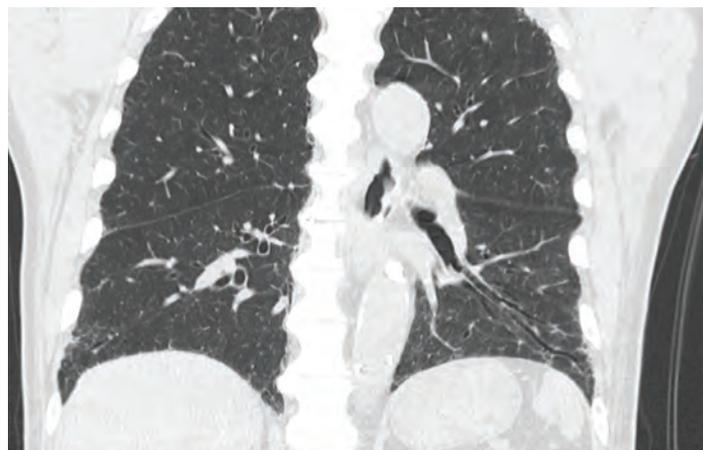
People-first Design

A workflow that works for you.

Your patients and your needs are front and center. Persona CT is engineered to provide a premium experience for your patients, raising the bar for comfort and safety. The system's highly intuitive interface is designed for easy and precise operation, helping your imaging staff perform at their best.



High diagnostic imaging in a single breath hold.



Routine imaging with high speed sub-millimeter scanning:

The system is capable of using sub-millimeter slices for high-speed, whole-body scans—something traditional 64 or 128 slice CT machines have trouble doing. Persona CT generates submillimeter high resolution images in any dimension with a single breath hold.

- Coverage ranges up to 1900mm
- Whole body images in just 16 seconds

High Speed Scanning for better patient care:

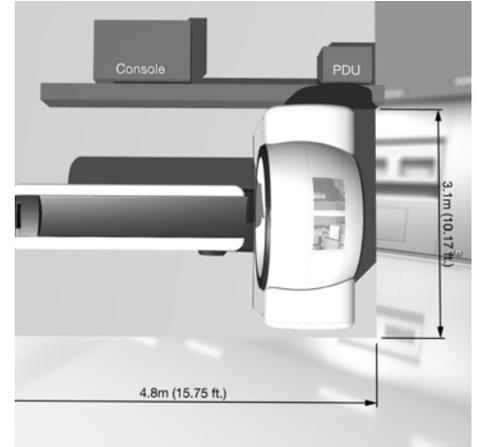
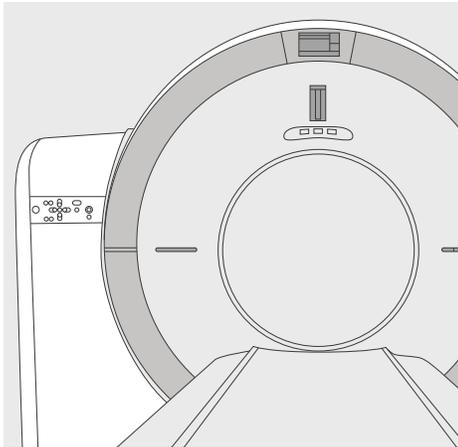
With a 40mm width detector and unique HQ 3D reconstruction algorithm, the Persona CT achieves high-speed scans even when using a pitch of 1.25. Faster scans mean less burden on patients, especially those that have difficulty holding their breath or position.

- 320mm coverage scans in 2.7 seconds
- 570mm Thoraco-abdominal scans in 5 seconds

Extends the potential of your service, without redundancy.

HQ 3D algorithm satisfies both High-Speed Scans and High Image Quality: The Persona CT uses High Quality 3D reconstruction software. This 3D reconstruction algorithm automatically optimizes the range of acquisition data, creating high quality images with less artifacts—even with a high-pitch scan.

Maximize your imaging opportunities without taking up more space.



Open, Yet Compact

Class leading bore size calms patients, while an unconventionally compact footprint facilitates installation into existing rooms.

85 cm wide bore

50 cm full FOV

Operator-friendly

Designed with your technologist in mind. The Persona CT comes with sleek customized standalone gantry controls, a large 27-inch touchscreen display with all the controls and information you need in a single view. The controller is directly integrated with the keyboard, further consolidating everything into one streamlined experience.

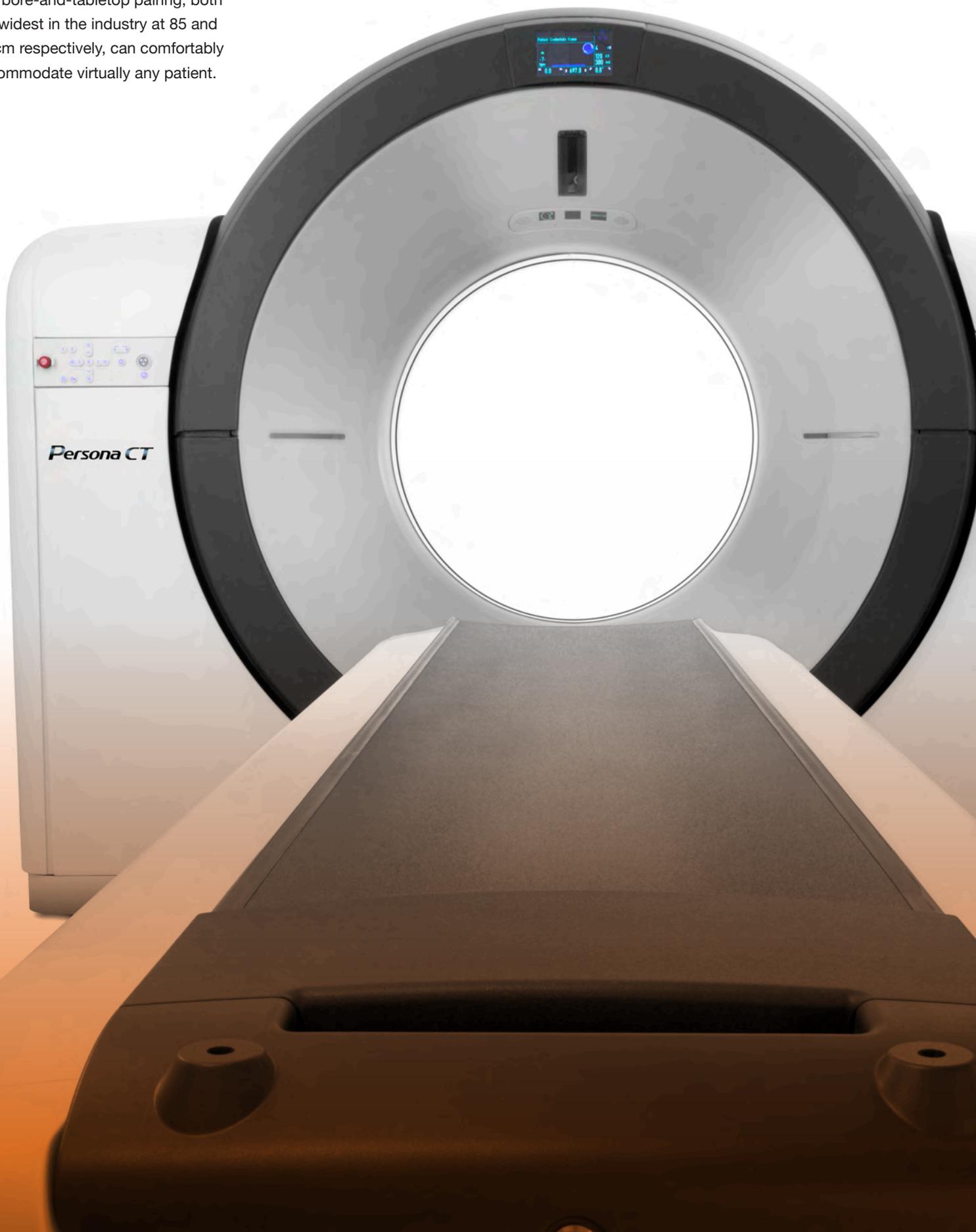
In your high-stakes environment, efficiency is everything. Our intuitive user interface, with Quick Entry mode, fewer buttons, and larger icons, speeds up your process significantly.

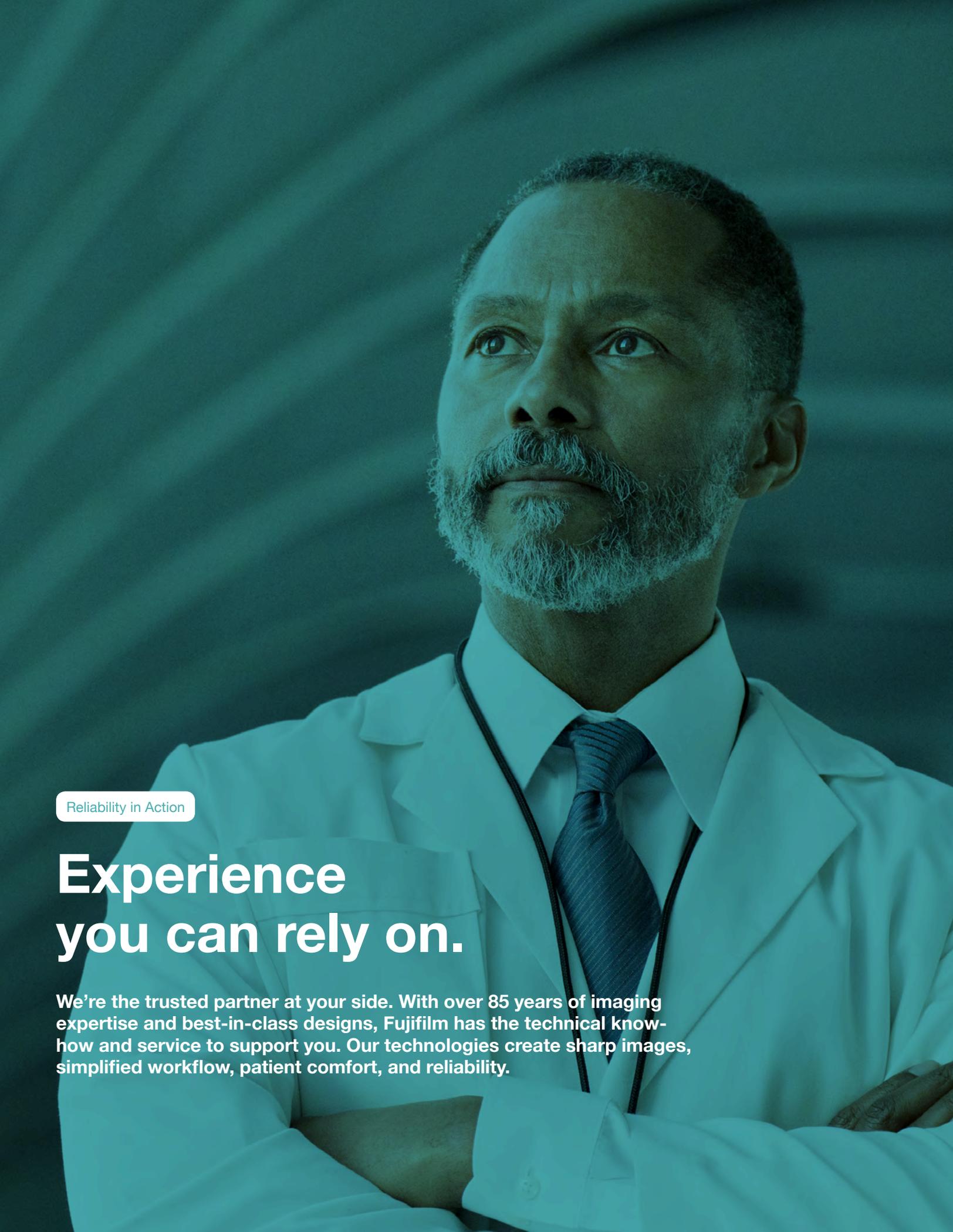
Simple Siting

The Persona CT only has 4 main system modules; gantry, patient table, power distribution module, and operation console. This, combined with our fewer-than-average 100 component count, achieves an impressively compact footprint.

Best-in-class bore size for enhanced patient comfort.

Our bore-and-tabletop pairing, both the widest in the industry at 85 and 49 cm respectively, can comfortably accommodate virtually any patient.





Reliability in Action

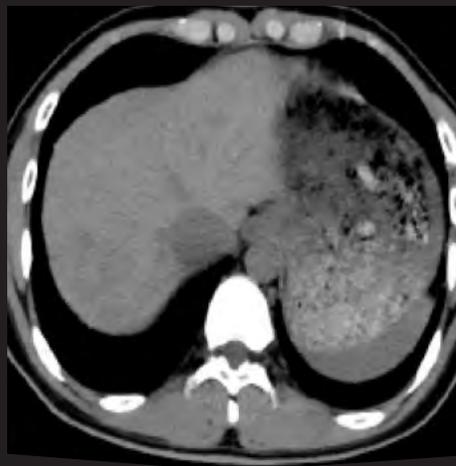
Experience you can rely on.

We're the trusted partner at your side. With over 85 years of imaging expertise and best-in-class designs, Fujifilm has the technical know-how and service to support you. Our technologies create sharp images, simplified workflow, patient comfort, and reliability.



Conventional FBP 5mm

vs.

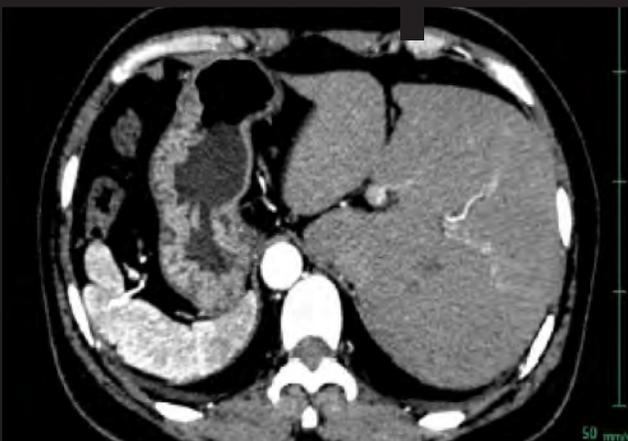
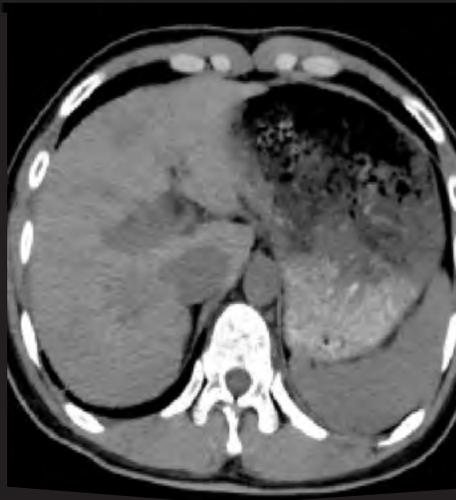


LISA⁵ 5mm

+



PixelShine 5mm



LISA⁵ 5mm

+



PixelShine 5mm

See the Fujifilm difference.

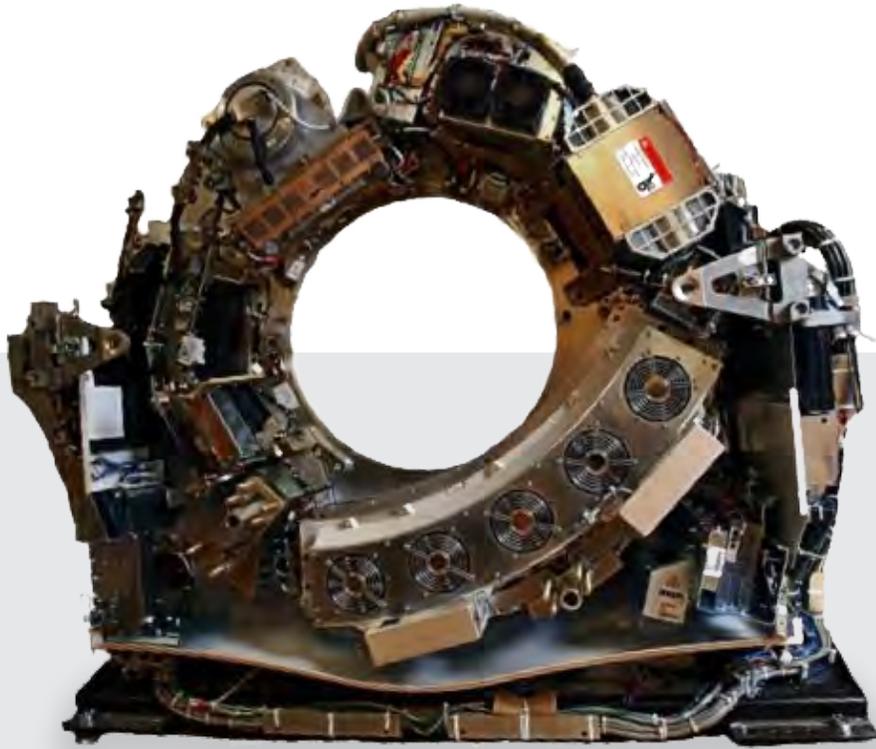
Unprecedented image quality with advanced image processing and engineering design.

Additive Approach: Filtered Back Projection vs. LISA⁵ + PixelShine

The LISA⁵ + PixelShine deep learning image solution ensures that Persona CT's scans are precise and high resolution with as little noise as possible, compared to the traditional Filter Back Projection method.

Experience the Fujifilm difference.

Unprecedented performance and reliability with advanced engineering design.
Engineered for noise reduction and reliability.



Old Gantry



PowerLink

PowerLink non-contact power and data transfer ensures that Persona CT is highly reliable, easily serviced, lightweight, and consolidated to lower maintenance costs.

Non-contact power & data transfer

PowerLink technology completely eliminates reliance on outdated carbon brushes found in conventional CT designs. Conventional brushes contribute to electronic failure and require frequent maintenance. Persona CT eliminates these concerns, instead employing a non-contact design data transfer.



Modular Design

Fewer field replaceable units (100 in Persona CT vs. 200-500 in competitors) in the machine means higher uptime, shorter learning curve for service personnel and faster serviceability.



→ → → → → → → **New Gantry**

Plan Possibilities

The Persona CT includes various plans for parts coverage and service, keeping your unique needs front and center. We offer both comprehensive plans and à la carte options for component parts, to ensure that you're getting exactly what you need.

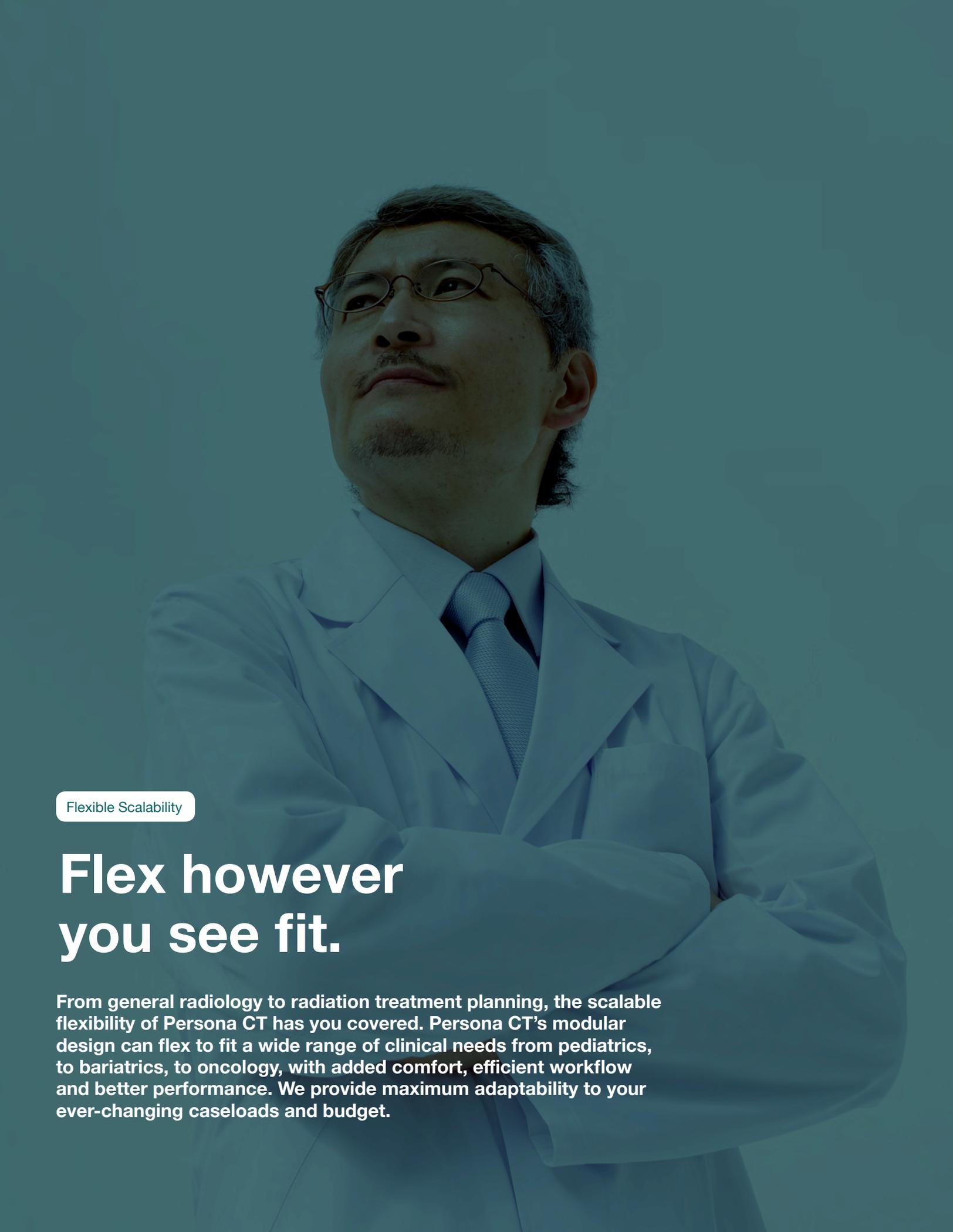
Dependable Service

Our plans come with factory trained, highly responsive customer service teams, remote monitoring capability, and a 12-month warranty. You can rest assured that your plan will cover all aspects of the Persona CT's streamlined component design, making maintenance easy and affordable.*

With fewer major parts and only 100 components, installation and maintenance are far more streamlined and hassle-free.



**with the exception of X-ray tubes and patient accessories*



Flexible Scalability

Flex however you see fit.

From general radiology to radiation treatment planning, the scalable flexibility of Persona CT has you covered. Persona CT's modular design can flex to fit a wide range of clinical needs from pediatrics, to bariatrics, to oncology, with added comfort, efficient workflow and better performance. We provide maximum adaptability to your ever-changing caseloads and budget.

Brain

Persona CT

Synapse 3D

Vessel Extraction & Separation

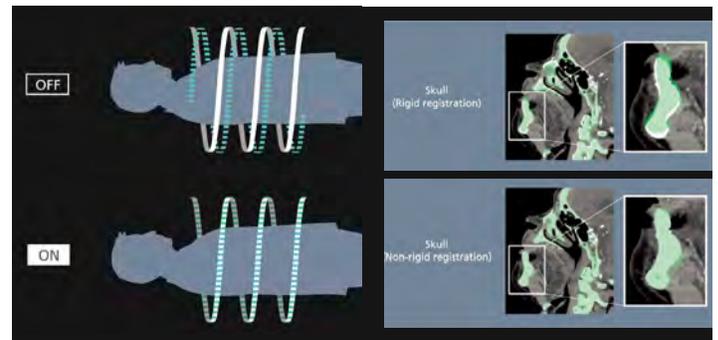
With just a single click, operators can achieve clear vessel extraction and separation of cerebral artery and vein through the technology in Persona CT and Synapse 3D.



Subtraction

Technology for Precise Subtraction:

- Orbit Synchronization in Helical Scan (The two orbits of helical scans before and after contrast can be synchronized, which improves the accuracy of subtraction image.)
- Non-rigid Registration (Non-rigid registration allows natural adjustment of body parts that otherwise is difficult in linear registration.)

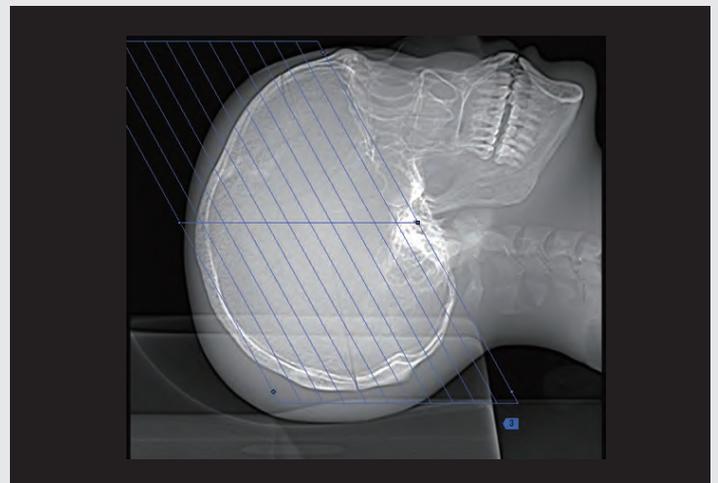


Persona CT

Synapse 3D

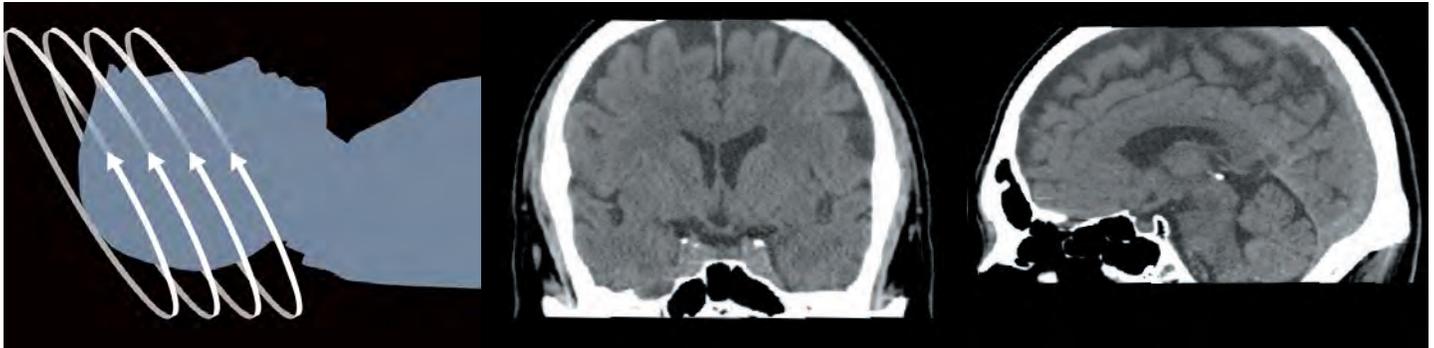
Directional Control of Radiation

Persona CT allows you to control the direction of the radiation more precisely, incorporating a tilting gantry angle up to 30°. In turn, it's easier to avoid artifacts from teeth and potential dose to lenses of the eyes.



High Quality MPR Image

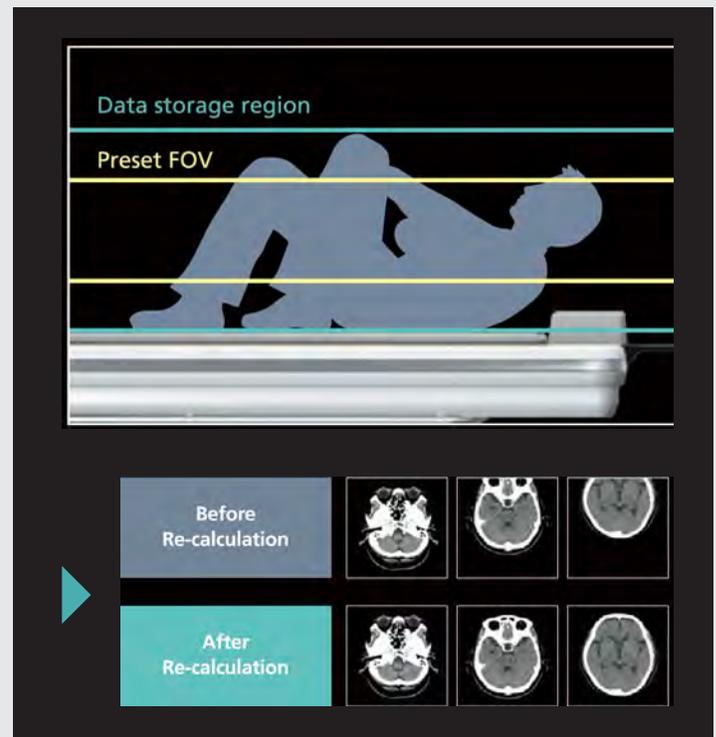
Persona CT creates thin-slice Multi Planar Reconstruction (MPR) images even from a non-helical scan, which is often used in brain examination. This allows doctors to have high contrast images with fewer artifacts.



Non-Helical scan

Reduction of Repeat Risk

Re-calculation from Full FOV Data: The Persona CT retains full FOV data (500mm) for every scan. If a patient's body area is outside of the scan's FOV, the lost portion can be easily recovered through a re-calculation rather than a re-scan, reducing the amount of radiation that patients and practitioners are exposed to. This eliminates associated retakes, reducing patient radiation dose in the case of a miscalculation or lost data.





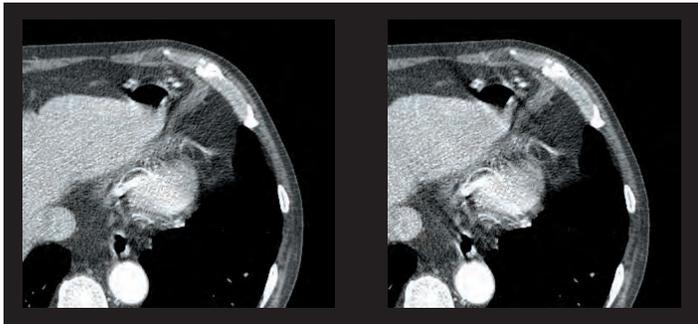
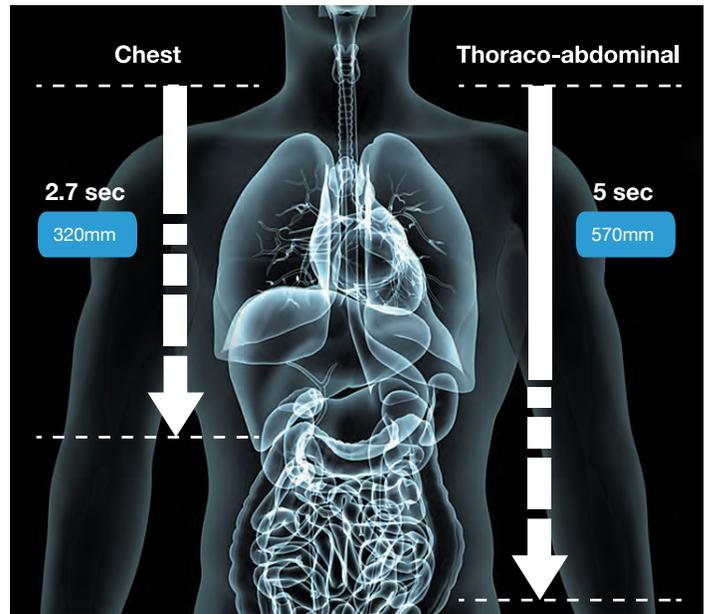
Whole Body & Vessels

Persona CT

Synapse 3D

High Quality 3D Reconstruction

High Speed Scanning with HQ 3D Reconstruction Method:
HQ 3D Reconstruction (High Quality 3D Reconstruction) method, which is a unique 3D reconstruction algorithm, optimizes the range of acquisition data to be reconstructed. By utilizing the data across the whole detector effectively, a high quality image with fewer artifacts can be obtained even with a high-pitch scan.



FeldKamp Method

(Conventional 3D image reconstruction)

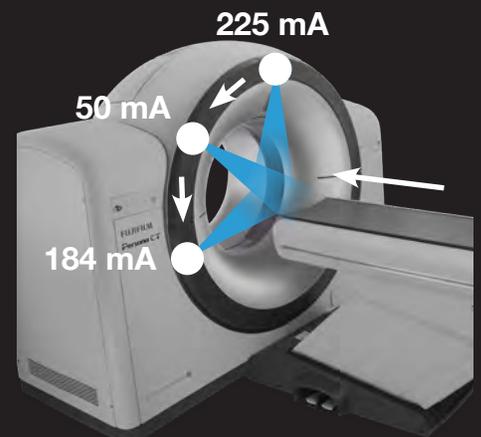
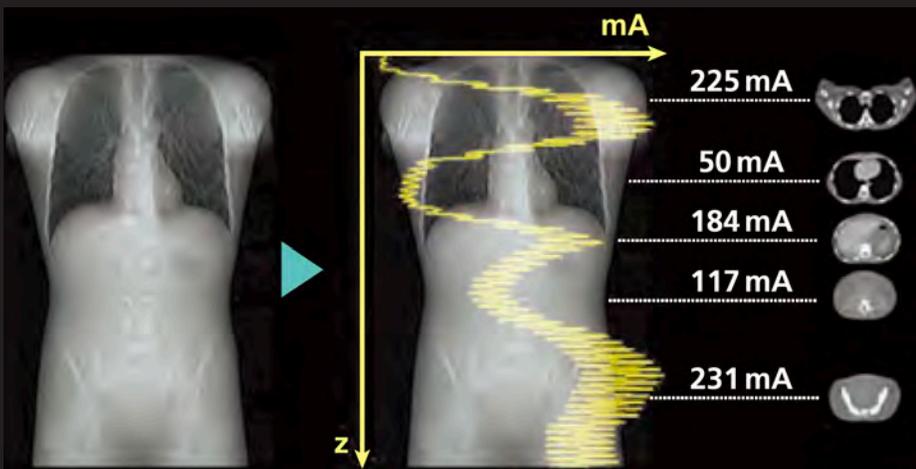
CORE Method

(New 3D image reconstruction)

Persona CT

Synapse 3D

Automatic 4D mA Modulation for Dose Optimization



4D dose modulation dynamically adjusts mA in X, Y, and Z directions throughout the duration of the scan with the goal of providing consistent image quality and lowest achievable doses. Tube current dynamically changes based on the size of patient and organs.

The Fujifilm Difference

| Capabilities | The Fujifilm Difference | Fujifilm 85cm Large Bore CT Simulator | Standard Bore Multislice CT | 16/32 Slice 85cm CT Simulator |
|--|---|---------------------------------------|-----------------------------|-------------------------------|
| Radiation Therapy Planning suitable | System is designed with RTP in mind | ✓ | ✓ | ✓ |
| Fujifilm 85cm Large Bore | Matches Arc of Linear Accelerator for maximum positional accuracy and more precise treatment planning | ✓ | ✗ | ✓ |
| Large eFOV (60cm+)* | Extend ability to do surface measurements | ✓ | ✗ | ✓ |
| PowerLink Technology | System reliability and reduced service costs with no brush blocks | ✓ | ✗ | ✗ |
| 49cm Wide Comfort Pallet Tabletop | Widest tabletop in the industry for enhanced patient comfort and safety | ✓ | ✗ | ✗ |
| 0.4 sec Rotation Speed | Faster rotation time to improve temporal resolution especially for 4D acquisitions | ✓ | ✓ | ✗ |
| 200 msec Temporal Resolution | One of the fastest in this segment | ✓ | ✗ | ✗ |
| 4D Respiratory Gating Technology* | Advanced motion management with amplitude binning for more precise dose planning | ✓ | ✗ | ✓ |
| 4cm Detector Coverage | Wider coverage equals faster scan times | ✓ | ✓ | ✗ |
| Metal Artifact Reduction* | Metal Artifact Reduction (MAR) is a projection-based reconstruction technique that restores anatomical details often obscured by metal in conventional image reconstruction. MAR automatically identifies areas affected by highly-attenuating objects and reconstructs improved images for increased clinical confidence. Next generation metal artifact reduction dramatically removes and/or reduces the streak artifact created by metal. | ✓ | ✓ | ✓ |
| 64 and 128 slice configurations | World's First 64 and 128 slice configuration in Large Bore environment with 85cm Bore | ✓ | ✗ | ✗ |
| TG-66 Compliant Table* | Meets AAPM TG66 requirements for positional accuracy and table movement | ✓ | ✗ | ✗ |
| Rapid Image Acquisition up to 42ips | Rapid reconstruction rate with Real-time Image Preview to streamline workflow | ✓ | ✗ | ✗ |
| Image Quality | | High | High | High |
| System Price | | Medium | Medium | High |

*These items are works in progress: not commercially available

Specifications

Technology Specs

| | | |
|----------------------------------|--|---|
| Gantry | Patient Aperture: 85cm Scan Field of View: 50cm Gantry Tilt: $\pm 30^\circ$ Scan Times (360°): CT64/128: 0.4, 0.5, 0.67, 1 | Gantry Dimensions H x W x D: 79.5 x 98.1 x 42.3in Input Power Requirements: 380-400/480 VAC, 3 phase, 50/60 Hz |
| X-ray Tube | Anode Heat Capacity: CT64/128: 8 MHU Maximum Heat Dissipation: CT64/128: 931 kHU/minute, Oil to Air | |
| X-Ray Generator | Power: Effective 105kW with LISA ⁵ kV Range: 80, 100, 120, 140 kVp Current Range: 10 to 660 mA | |
| X-Ray Detection | Number of Detector Elements in X-Direction: 57,344 elements (64 x 896) Number of DAS Rows: 64 Slice Doubling Technique: Optional 128 slice | Detector Width (Z dimension): CT64/128: 40mm at iso-center Maximum Helical Scan Time: 120 seconds Maximum Scan Volume: 190cm |
| Scan Parameters | Acquired Slice Thickness: 64 or 128 slice of 0.625mm Displayed Slice Thickness: 0.625, 1.25, 2.5, 5, 7.5, 10mm Scan Modes: Localizer, Axial, Helical, Cine | |
| Image Quality | Spatial Resolution: 17.2Lp/cm at 0% MTF | |
| Image Reconstruction | Max reconstruction rate: Up to 42 images per second Real-time Image Preview Iterative Bone Correction | |
| Patient Table | Vertical Travel Range: 48cm to 101cm (18.9in to 39.8in) Horizontal Scannable Range: 190cm (74.8in) with extensions Horizontal Travel Speed: Up to 180mm (7.1in)/s Patient Weight Maximum: 225kg (500lbs) or Optional 300kg (660lbs) | Horizontal Accuracy: ± 0.5 mm Table Pallet Width: 49cm (19.3in) Table Width: 78cm (30.7in) Included Accessories: Tabletop Slicker Pad, Head Holder & Pad, Foot Extension Board & Slicker Pad, Patient Restraints, IV Pole & Holder, Knee Pad |
| Radiation Dose Management | Pediatric Protocols LISA ⁵ with PixelShine 4D mA modulation Protocol Driven Dual Bowtie Filters | Automatic Focal Spot Selection Expanded kV Ranges Scalable Flex Tile Detectors NEMA XR-29 |
| System Console | Display Monitor: One (1) 27" Full HD Flat Panel Touchscreen Display Matrix: 1920 x 1080 Display Dimensions H x W x D: 26.5" x 16.5" x 2.0" Workstation: Intel i7, Windows | System Memory: 16 GBytes System Hard Disk: 2 TBytes Image Data Storage: DVD > 250,000 Images System Archival Storage: DVD |

System Specifications

| | | |
|---|---|--|
| User Interface Features | Clinical Protocol Driven with Overrides Touchscreen Workflow Automated with Task Protocols Automatic MPR Reconstruction | Auto-Archive Advanced Help Second Workstation (optional) with Synapse 3D |
| HIS/RIS/PACS Integration Services | DICOM 3.0 Modality Work List SCU IHE Profiles for Radiation Dose Structured Reports | |
| Clinical Application Packages (standard) | MPR MIP/MiniP 3D Shaded Surface Display | 3D Volume Rendering Bolus Trigger/Dynamic Evaluation CT Angiography |
| Clinical Application Packages (optional) | 3D Volume Rendering Bolus Trigger/Dynamic Evaluation CT Angiography Virtual Colonography CT Perfusion | Lung Nodule Analysis Cardiac Gating/Triggering Coronary Artery Calcium Scoring Bone Mineral Density Image Fusion |

FUJIFILM

Value from Innovation

#VisionaryCT

Fujifilm Medical Systems U.S.A., Inc.

www.fujimed.com

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Technical specifications subject to change without notice.

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