FUJIFILM
Value from Innovation

FCT iStream

128 slice CT System

Value, Versatility and Reliability

FCT iStream

Combining cutting-edge technologies with AI enhanced image processing and workflow to accommodate and address today's increasing patient volume, comfort and dose concerns.

At a Glance

- Compact space-saving design
- 128-Slice CT high resolution, high speed
- 75 cm open bore for versatility and comfort
- SynergyDrive accelerated workflow and automation
- Quick-Entry UI registration and protocol selection
- Intelli IPV – innovative Vision Model™ iterative reconstruction enables up to 83% dose reduction*
- MaxiLight™ Full Digital HV Detector delivers low noise, high resolution images
- HiMAR Plus intelligent metal artifact reduction

* Lower dose is compared to Intelli IPV Iterative Reconstruction turned ON vs. OFF, based on patient thickness, anatomy characteristics and acceptable clinical diagnostic image quality preferences in contrast and noise tolerability.


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Ease of Use and Efficiency

SynergyDrive

01 Initiate Scanogram

Quick Entry Mode
Simplified Workflow

Fast, intuitive operation, customizable GUI, fewer buttons, fewer clicks, and larger icons.

Initiate scanogram with just 3 clicks

1. **Select Protocol**
2. **Confirm**
3. **Start**

02 Positioning

One-button positioning

One touch moves table to position for scan and sets table height & stop position based on protocol selected.

03 Scanogram

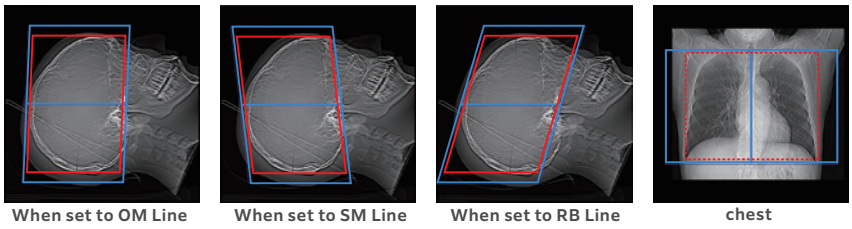
AutoPose & iTilt

AutoPose intelligently maps scan range based on the scanogram.* Since range is set prior to scan, it can be tailored to site preferences.

iTilt automatically creates and enables preview of tilted images during scanning.

* Operator must confirm automated selection and can manually adjust, if necessary.

Red: automatically set position, Blue: automatically set position + margin setting position



When set to OM Line | When set to SM Line | When set to RB Line | chest

04 Scan

60 ips reconstruction with Auto MPR

Reconstruction is performed at up to 60 ips in parallel with scanning acquisition. This allows real-time checking, streamlining workflow. MPR images are auto generated and sent to PACS.

05 Image Transfer

Standard or parallel image transfer

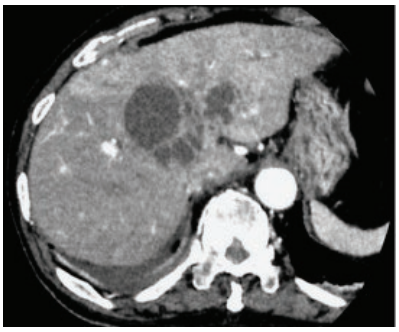
Images transfer to diagnostic workstation or optionally in parallel to 3D workstation to further speed patient care.

Image Quality and Dose Reduction

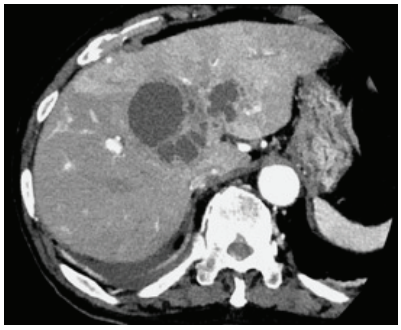
Intelli IPV

Fujifilm's next-generation Vision Model iterative processing, unlike conventional iterative reconstruction, achieves dose reduction without compromising image quality, closely matching the texture of Filtered Back Projection (FBP) images*

FBP (Filtered back projection)



Conventional iterative reconstruction

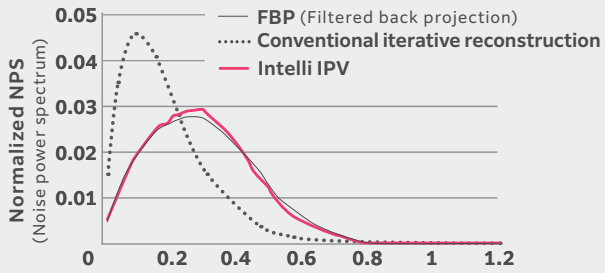


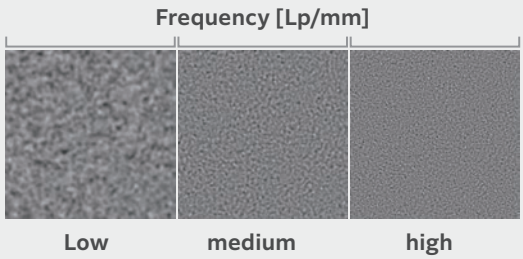
Intelli IPV

Image noise reduction up to
90% LOWER[1,2]

Dose reduction up to
83% LOWER[3]

IPV enhances visibility, uniformly adjusting texture from high to low frequency, emulating the physical properties of a FBP image.





*IPV stands for Iterative Progressive reconstruction with Vision Model. Intelli IPV was developed using machine learning, an AI technology. The performance and accuracy of the system do not automatically change after implementation.
1: Abdominal region.
2: Compared to FBP. Measured using Intelli IPV intensity level Strong5 and tested with a water phantom. Depending on the clinical task, patient size, anatomic location, and clinical examination, the effect obtained may be smaller.
3: Compared to FBP. Measured at 0.625 mm slice thickness using Intelli IPV intensity level Strong5 and tested with MITA CT IQ phantom CCT189, Phantom Laboratory using the model observer method results. Depending on the clinical task, patient size, anatomic location, and clinical examination, the effect obtained may be smaller.

IntelliEC Plus

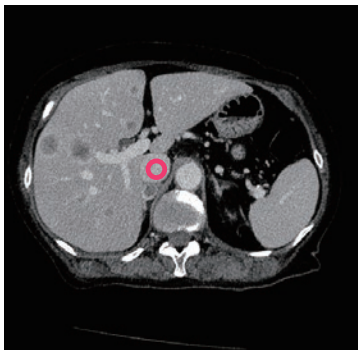
Exclusive 3D mA modulation adjusts tube current dynamically during the scan in three directions based on individual patient anatomy, thickness and level of iterative reconstruction selected. This provides real-time automated patient specific dose reduction with amazing high image quality and a constant noise standard-deviation.

Target SD 12

Noise reduction ratio
by iterative reconstruction

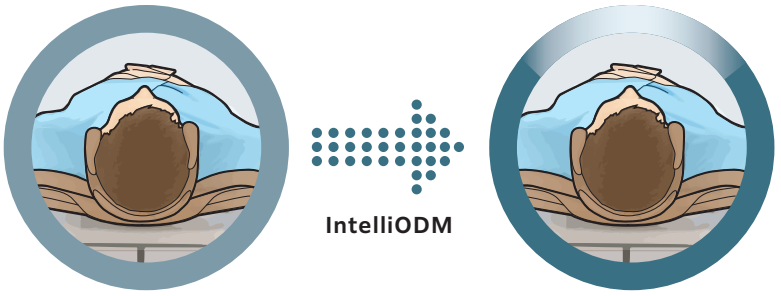
Scanning → Iterative reconstruction

Normal AEC
IntelliEC Plus



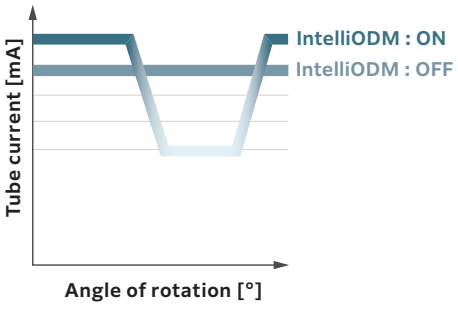
IntelliODM

Intelligent organ-based tube current modulation reduces dose to eyes during the scan, while providing excellent image quality.



OFF

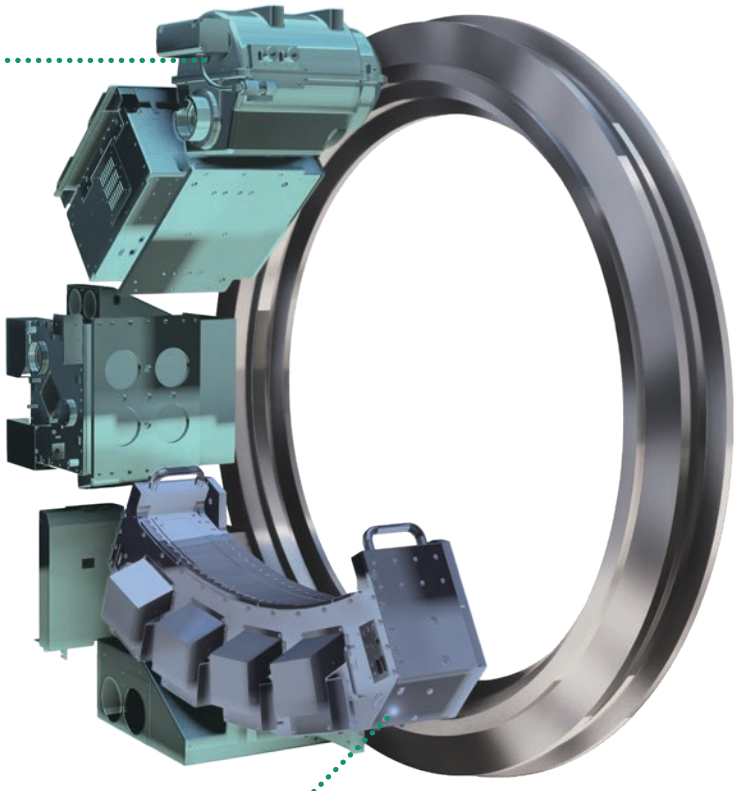
ON



Innovations built to last and perform

Highly efficient X-ray generation system

Unique high-efficiency, high-voltage generator and 6 MHU X-ray tube assembly achieves 60 kW (maximum 670 mA) high output with a power supply capacity of 75 kVA.

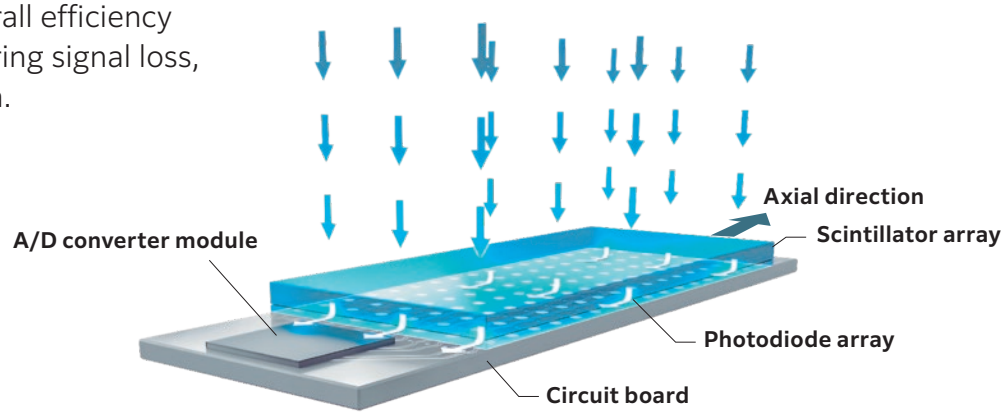


Full Digital HV Detector

High sensitivity detector with MaxiLight technology acquires high resolution, low noise images with low power consumption.

MaxiLight Technology

Fujifilm's advanced capture circuitry design eliminates analog wiring between boards making the HV Detector fully digital. This unique design maximizes overall efficiency and image resolution by lowering signal loss, noise and power consumption.

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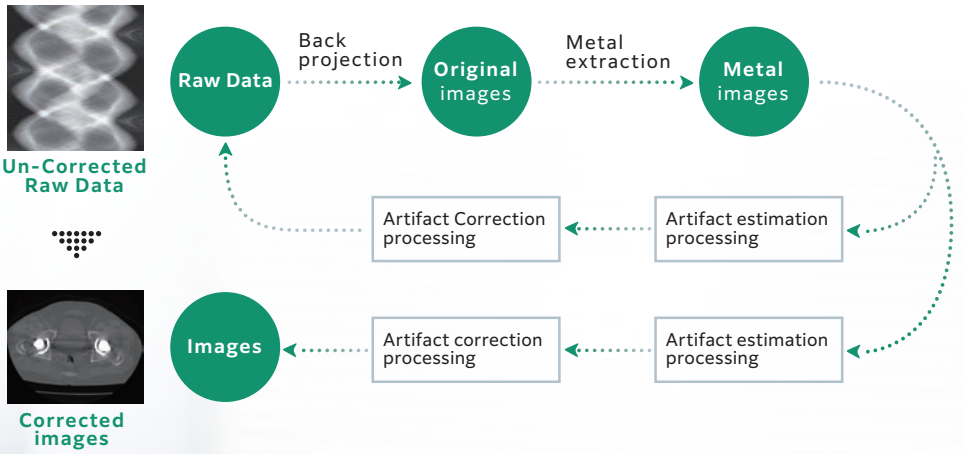
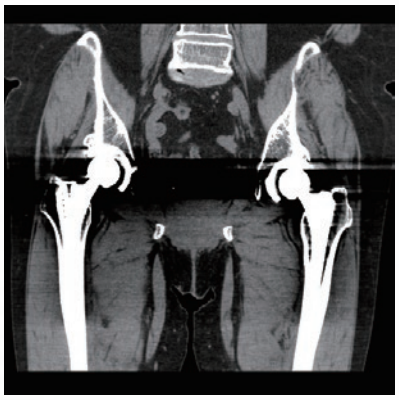
Advanced Artifact Reduction

HiMAR Plus

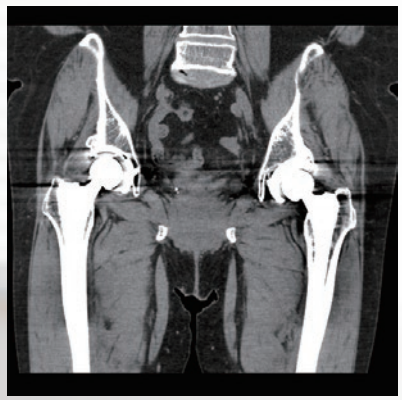
Improves diagnostic visibility of areas surrounding metal objects using iterative processing to progressively reduce noise and optimize image quality of the object and surrounding areas.

HiMAR Plus sensitivity is adjustable to adapt to the application and site preferences.





FBP



HiMAR Plus

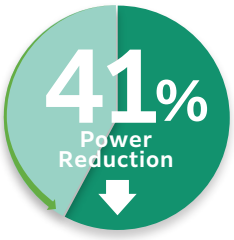
Space & Energy Saving Design and Advanced Dose Management

Three Module System

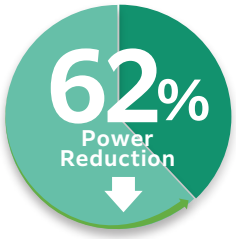
The entire system comprises just three components: ❶gantry, ❷table, and ❸console. Provides better space utilization and allows for easier upgrades and maintenance.

Minimized Energy Consumption

Lower heat, digital circuitry enhancements and overall energy efficient design of the system helps extend system life, minimize operational costs and ecological footprint. Two power saving economy modes reduce energy consumption even further during inactivity.



On-time standby - conserves power to the gantry during inactivity, reducing consumption up to 41% compared to economy mode OFF.



Off-time mode - reduces detector power while still maintaining readiness when the system is powered-off. Reducing consumption up to 62% compared to without this feature.

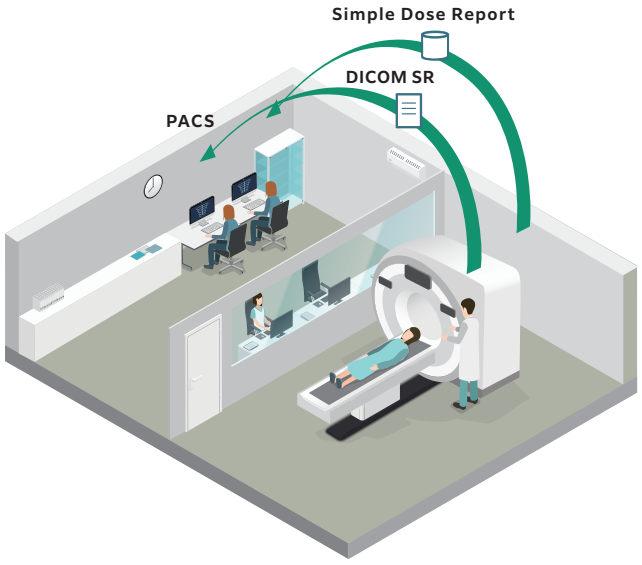
Simplified Dose Management

Dose Reporting

Automated dose reports are embedded with each image series, for easy accessibility whenever and wherever they are viewed.

DICOM Structured Reporting (SR)

Dose structured reporting enables easy tracking and benchmarking of dose across different exams, equipment and facilities. Provides full compliance with Dose-SR DICOM standardized output (Per NEMA Standard XR-29). Sends dose report for each exam to DICOM destinations such as PACS / VNA and dose registries affiliated with your facility.



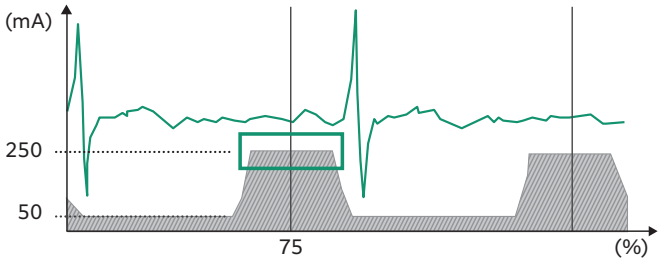
Advanced Clinical Applications

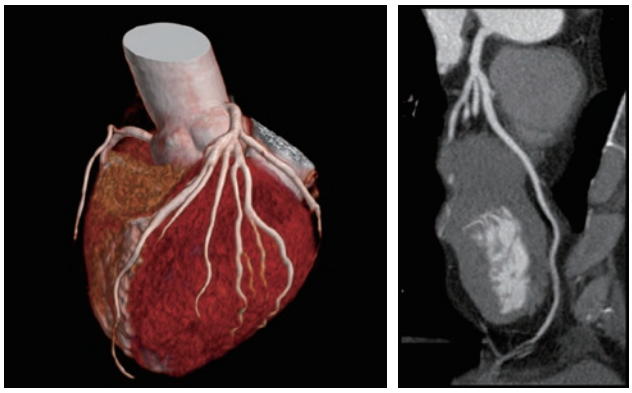
Automated Cardiac

FCT iStream's optional advanced 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. Available prospective step & shoot and retrospective dose-modulated ECG gated acquisition ensures high quality study results for a wider range of patients.

IntelliEC Cardiac

Reduces dose using electrocardiogram information. Dose modulation is calculated and applied based on cardiac data to minimize tube current during non-target phases, including resting phases of mid-diastole and end-systole.

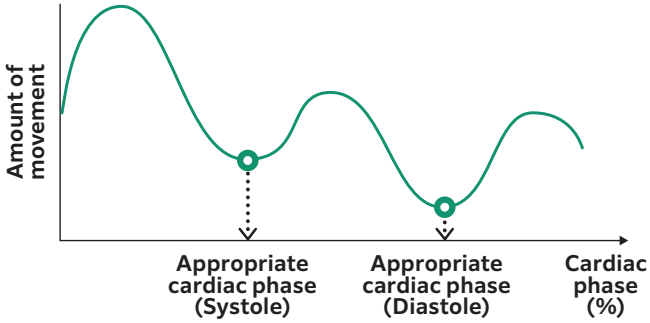


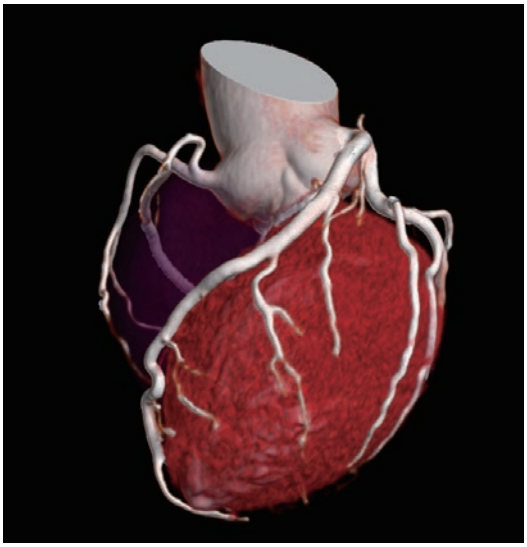


Reconstructed cardiac phase 75%

CardioHarmony

Enhances cardiac CT workflow by automatically* simplifying the process of phase selection, detecting and reconstructing cardiac phases with minimal motion.



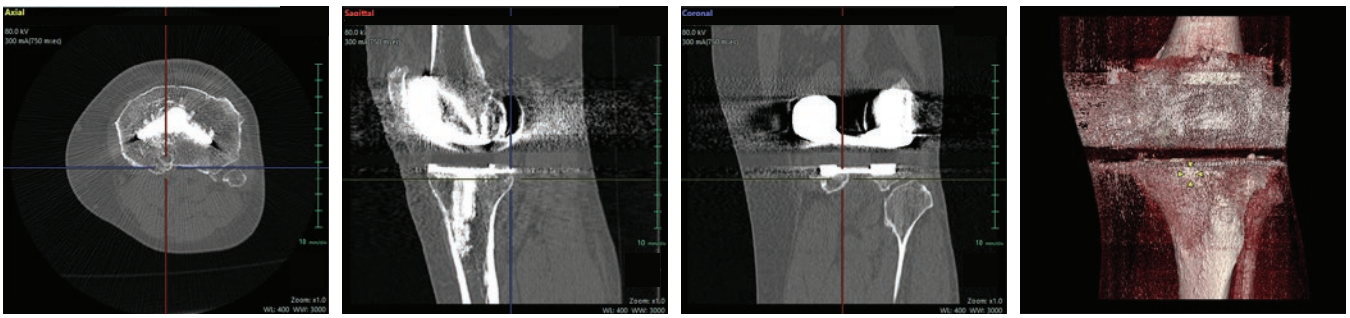


* Automated selection must be confirmed by the operator and can be adjusted, if necessary.

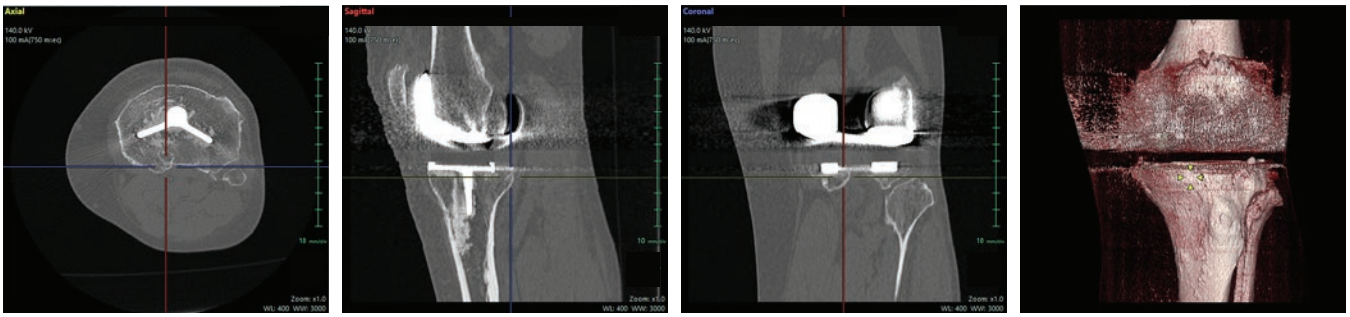
Dual Energy Scan

Performs scans at two different energy levels, switching tube voltages between a lower voltage of 80kV or 100kV and the higher voltage of 140kV. This allows reconstructed images scanned using two energy levels in the same position within the scan range. Image sets are then transferred to a 3D Visualization server (supplied separately) for enhanced visualization, detection and characterization of tissue types, lesions and or contrast agents.

Low keV image display



High keV image display



GuideShot-Interventional Feature

Supports CT-IVR biopsy, providing real-time image guidance and visualization tools to assist clinicians in accurately positioning instruments, such as needles or catheters. Physicians can perform biopsy procedures on a patient while observing the CT images on the monitor in the scanner room. GuideShot allows controlled and displayed scanning of three contiguous slices at the table side, particularly useful for interventional needle guidance during biopsies or targeted injections. Two table movement speeds are available for fine positioning or faster movement.

Advanced 3D Visualization

FCT iStream seamlessly interfaces with a wide range of 3D visualization solutions. Fujifilm also offers Synapse 3D, our own industry leading vendor-neutral advanced visualization platform with over 50 clinical modules.

Abdomen

Abdomen CTA-Volume rendered Image

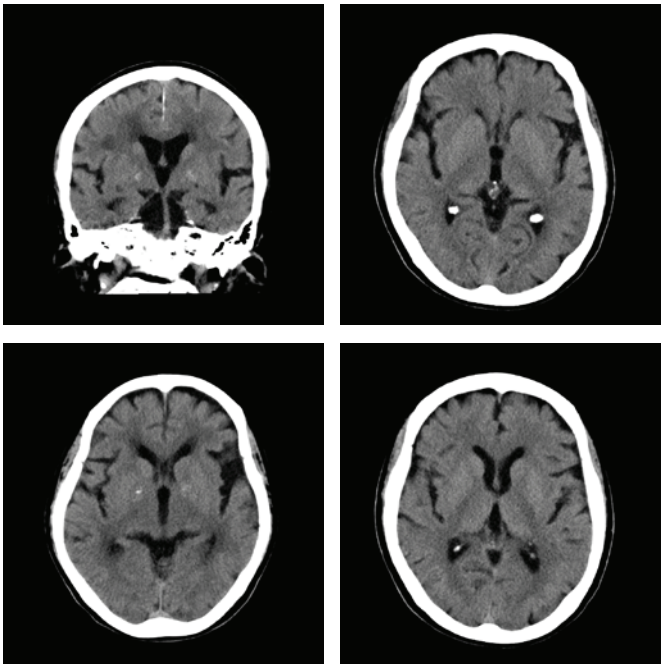
Multi Planar Reconstruction- Coronal View of the Abdomen and Pelvis

Orthopedics

Orthopedic segmentation of the femoral head/hip

3D images processed on Fujifilm Synapse 3D workstation

Head

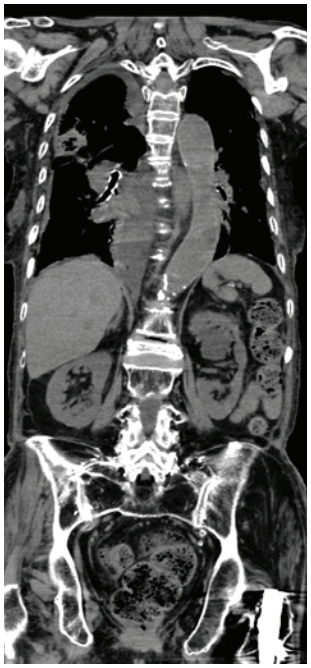


Brain Images using IPV
Fujifilm's advanced iterative reconstruction

Chest/Lungs

Low Dose Lungs Images

Whole Body



Whole Body CT of the chest/abdomen/pelvis Coronal View

Smooth Implementation and Comprehensive Support

Site Planning and Installation

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

On- and Off-site Training

Comprehensive on-site applications training with no-charge follow up visits come standard with every warranty and full-service contract. Whether you need to update the skills of your existing workforce, or train new employees, Fujifilm's experts can provide training without added financial burden to your facility. Our training programs are continually updated to ensure the latest dose reduction strategies and best operating practices are always at the forefront of your CT experience.

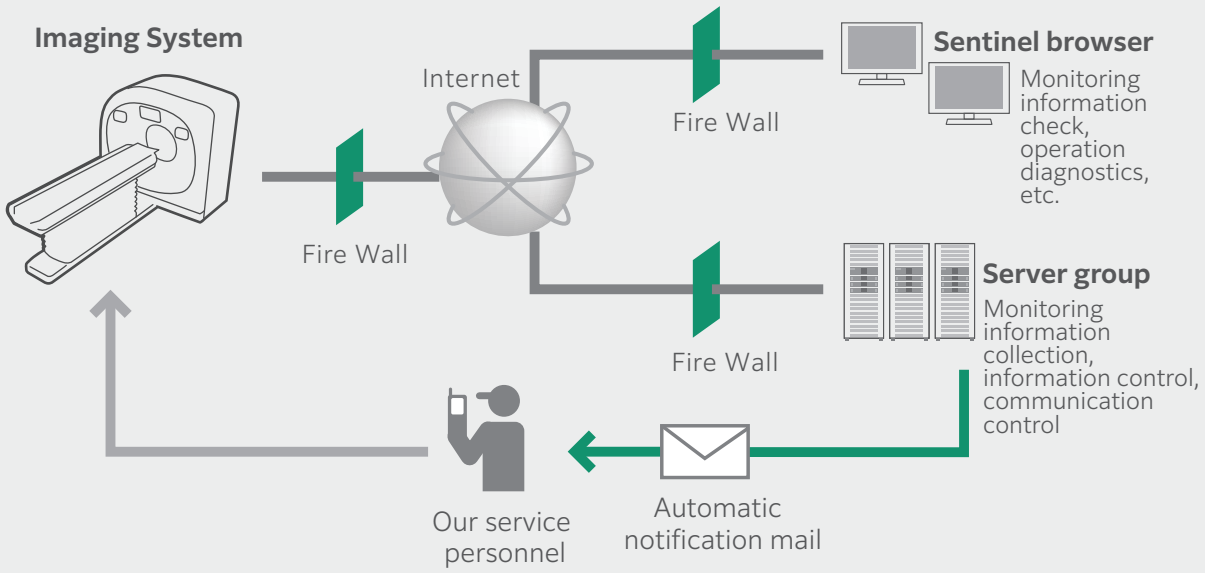
99% Uptime Guarantee

Expect reliability. Our uptime guarantee ensures your system is running 99% of covered time during every quarter or you receive additional service at no cost.

Sentinel™ Remote Service

Uptime is maximized through our Sentinel 24-hour monitoring and failure analysis system. Predictive failure reporting through Sentinel Analytics minimizes the impact of inspection and parts replacement cycles on CT system availability. Potential issues can be identified and addressed proactively.

Sentinel Remote Service



Fujifilm is driven by our legacy of pioneering diagnostic imaging technologies and our commitment to bringing future imaging innovations. Most importantly, we are dedicated to helping you deliver the highest quality patient care.

We meet your real needs with real solutions. We help you deliver better outcomes – financial, operational, and clinical – through exceptional image quality, increased patient safety, enhanced workflow, and improved return on investment.

This is true "value from innovation" and what we offer every day.

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