

AMULET *Innovality*

FUJIFILM DIGITAL MAMMOGRAPHY SYSTEM

Fujifilm Mammography Solution

AMULET Bellus II (Diagnostic Workstation)

The multi-modality workstation optimized for mammography imaging can display images of MG, CT, PT, MR, CR, DX and US. Selection of a reading protocol and an image pattern is possible, providing efficient diagnosis workflow. Images can be printed at preferred positions and sizes with measurement information.



Mammography QC Program

Fujifilm's Mammography QC Program is a dedicated quality control program that can be used on all Fujifilm digital mammography systems. This program monitors system performance to ensure stable image quality is maintained for both screening and diagnosis. Phantom for AMULET Innovality: 24 × 30 size.



Main specifications

Standard components

- Exposure stand (FDR-3500DRLH): Approx. 624 (W) × 1270 (D) × 1974 (H) mm / Approx. 370 kg / AC 200 / 208 / 220 / 230 / 240 V
- Control cabinet: Approx. 503 (W) × 205 (D) × 530 (H) mm / Approx. 20 kg
- Generator: Approx. 445 (W) × 315 (D) × 825 (H) mm / Approx. 70 kg
- AWS (FDR-3000AWS): Approx. 700 (W) × 420 (D) × 1900 (H) mm / Approx. 90 kg (including protective shield and operation table) / Main unit: AC 100-240 V

• The appearance and specifications may be subject to change. • For the details of regulatory information and availability in your country, please contact our local representative.
• Some items are optional, please contact your subsidiary for the details. • (Accessories): They are CE marked for their own class.



FUJIFILM supports the Pink Ribbon Campaign by creating and selling Pink Ribbon related goods to its affiliated companies, and donating a part of the sales to "JAPAN SOCIETY OF BREAST HEALTH".

FUJIFILM

FUJIFILM Corporation
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN
<http://www.fujifilm.com/products/medical/>



Lasting smiles for women worldwide

Innovation and quality in mammography



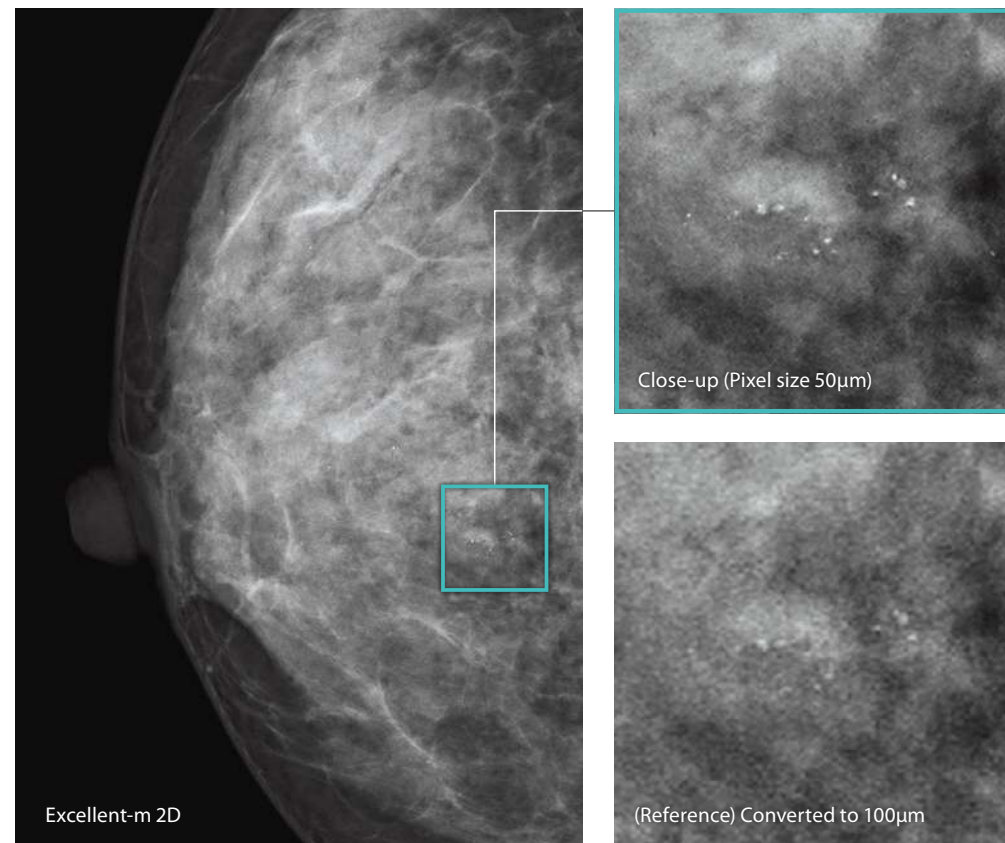
AMULET Innovality – the result of Fujifilm’s ongoing “innovation” and commitment to providing top “quality” mammography services. The Innovality utilises Fujifilm’s unique a-Se direct conversion flat panel detector (FPD)* to produce clear images with a low X-ray dose. This system makes use of intelligent AEC (i-AEC) combined with a image analysis technology to automatically adjust the X-ray dosage for each breast type. AMULET Innovality is a highly advanced mammography system which offers an extremely fast image interval of just 15 seconds. With this system, Fujifilm furthers the provision of high quality examinations with superior image quality.

*Using a HCP (Hexagonal Close Pattern) TFT array.

Origin of the name	With its mammography solutions Fujifilm hopes to be an “Amulet” — always there to protect women’s health and allow them to be true to themselves, vibrant and beautiful. The AMULET series aims to provide top-class digital mammography solutions that can be customised to meet every sites needs.
--------------------	--

1 Fujifilm's unique Technology

Solution to support diagnosis



ISC – Adjusted contrast and low X-ray dose using a Tungsten Target

Image-based Spectrum Conversion* (ISC) technology can be used to adjust contrast in an image. ISC analyzes images to compensate for variations in contrast due to the density of mammary glands, amount of fat and X-ray spectrum. ISC aims to ensure that images display adequate contrast even with the use of a high energy, low-dose X-ray beam. This technology allows sites that previously exploited the superior contrast of a Molybdenum target to realize the dose advantages offered by the use of Tungsten without having to compromise image contrast.

*Based on Image analysis the appearance is adjusted to emulate the image quality with the simulated "optimal" spectrum.

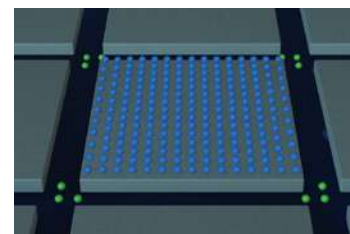
DYN II – Provides high contrast image without saturation in breast region

Dynamic Visualization II (DYN II) provides consistent appropriate density of glandular and adipose tissue in each breast type, so the contrast of thick breast and dense breast is improved. Furthermore, it provides high contrast with no saturation in breast region, so the sites are possible to set high contrast parameter.

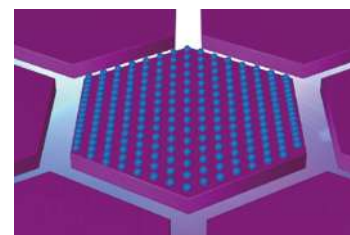
Unique detector for fast, low dose examinations

AMULET Innovality employs a direct-conversion flat panel detector made of Amorphous Selenium (a-Se) which exhibits excellent conversion efficiency in the mammographic X-ray spectrum. The HCP (Hexagonal Close Pattern) detector efficiently collects electrical signals converted from X-rays to realize both high resolution and low noise. This unique design makes it possible to realize a higher DQE (Detective Quantum Efficiency) than with the square pixel array of conventional TFT panels. With the information collected by the HCP detector, AMULET Innovality creates high definition images with a pixel size of 50 µm; the finest available with a direct-conversion detector.

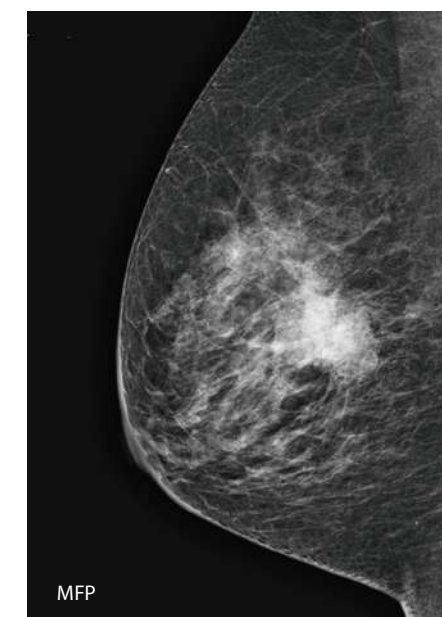
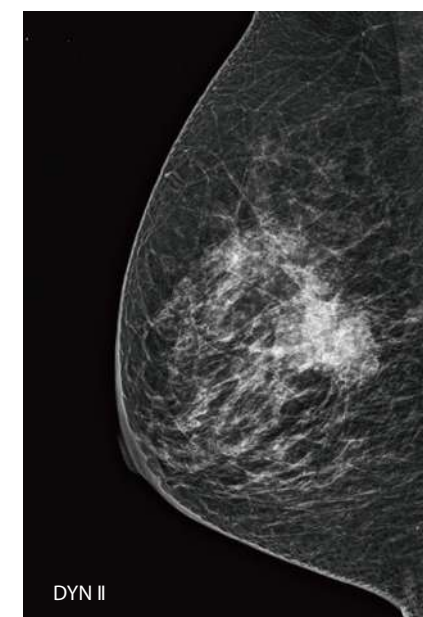
This low-noise and high-speed switching technology allows tomosynthesis exposures with a low X-ray dosage and short acquisition time to be performed. Fast image display is also possible, realizing a smooth mammography workflow from exposure to image display.



Conventional square pixel



AMULET Innovality hexagonal pixel



1 Fujifilm's unique Technology

Solution to support diagnosis

Dedicated mammography AWS (Acquisition Workstation)



AWS



High definition second monitor



Optimal examination workflow

- Integrated X-ray controller allows setting and confirmation of exposure conditions on a single screen.
- Examination screen can be split and switched between 1, 2, or 4 image display.
- Individual images can be immediately output to a PACS, viewer or printer during an examination.
- Density and contrast can be easily adjusted while viewing images.
- Alignment of left and right images can be adjusted both automatically and manually.

High definition second monitor (3M/5M: Optional)

- A second, high resolution monitor can be added to the AWS making it possible to display previous images recalled from a PACS to ensure the mammographer has access to previous images at all times.
- For Tomosynthesis, reconstructed images can be displayed.

Patient information display

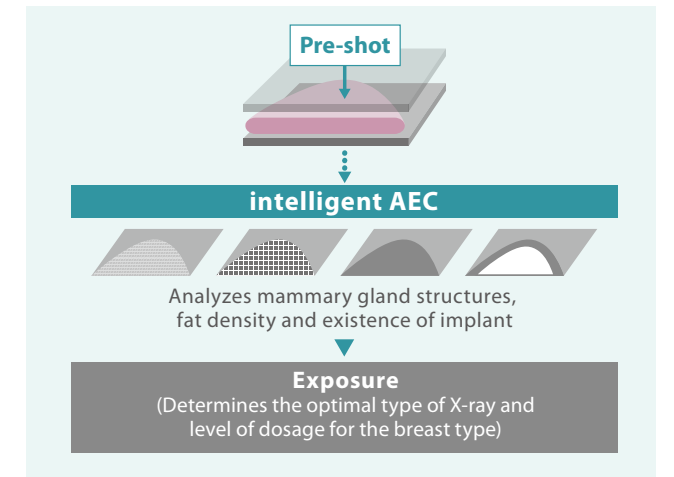
The information shown on the display **A** at the base of the exposure unit can be switched between patient information (ID, name, date of birth, etc.) and positioning information (angle of swivel arm, compression force and breast thickness). Positioning information can also be confirmed on the display **B** on the compression arm.



7 supported languages

Unique detector for fast, low dose examinations

Intelligent AEC has advantages in defining the appropriate dose for an examination compared to conventional AEC systems where the sensor position is fixed. Through the analysis of information obtained from low-dose preshot images, Intelligent AEC makes it possible to consider the mammary gland density (breast type) when defining the x-ray energy and level of dose required. Able to be used even in the presence of implants; intelligent AEC enables more accurate calculation of exposure parameters than is possible with conventional AEC systems. By allowing the use of automatic exposure for the implanted breast, Intelligent AEC can further enhance examination workflow.



intelligent AEC

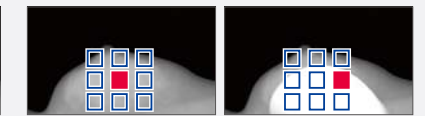


Automatically selects the appropriate mammary gland area from pre-shot images

Conventional AEC



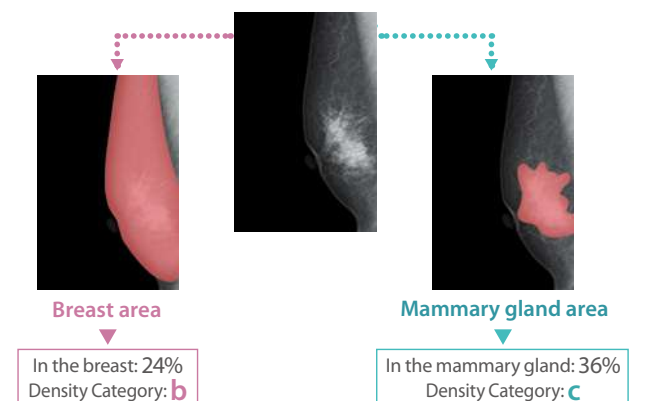
Manual sensor AEC
Requires manual adjustment of the setting based on the assured location of mammary gland



Automatic sensor AEC
Automatically selects the appropriate sensor from the pre-shot images

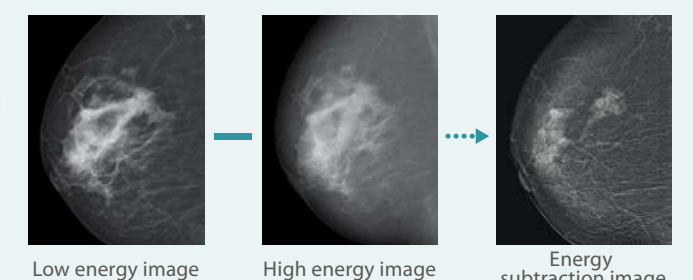
Breast Density Measurement

As information for doctors to classify the breast more quantitatively, calculation in the mammary gland area was added to the "mammary gland volume measurement function" that automatically calculates the mammary gland volume in the breast area from a mammography image. This mammary gland volume measurement in the breast area/mammary gland area can also be calculated with Tomosynthesis images.



CEDM function

With one compression, it continuously performs low tube voltage (low energy) imaging close to the ordinary mammography imaging and high tube voltage (high energy) imaging with a Cu filter, and automatically generates and displays a subtraction image of the obtained images. This subtraction image constitutes an image emphasizing specific tissues.



*When an iodine-based contrast agent is used

2 Tomosynthesis

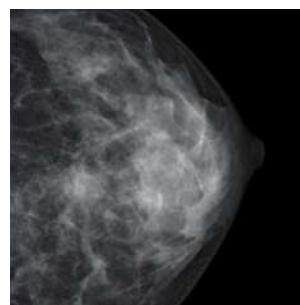
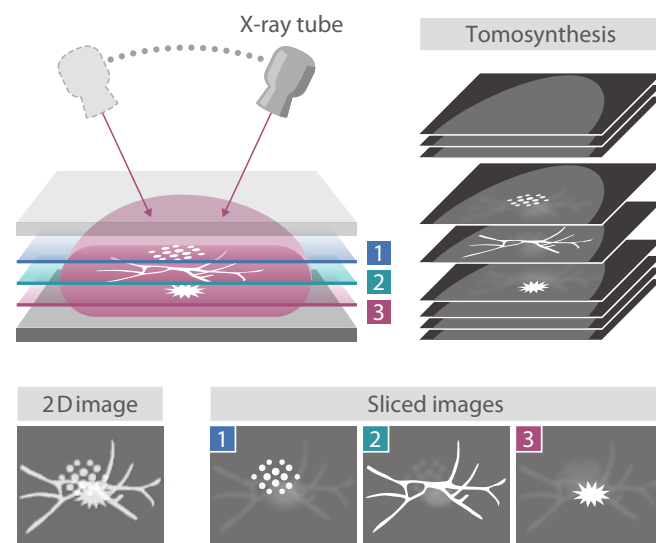
High quality images for easier diagnosis

Tomosynthesis: making it possible to observe the internal structure of the breast

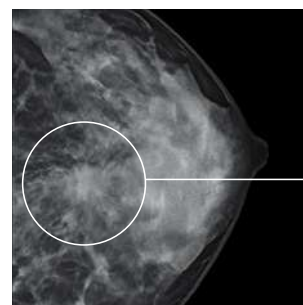
In breast tomosynthesis, the X-ray tube moves through an arc while acquiring a series of low-dose X-ray images. The images taken from different angles are reconstructed into a range of Tomosynthesis slices where the structure of interest is always in focus.

The reconstructed tomographic images make it easier to identify lesions which might be difficult to visualize in routine mammography because of the presence of overlapping breast structures.

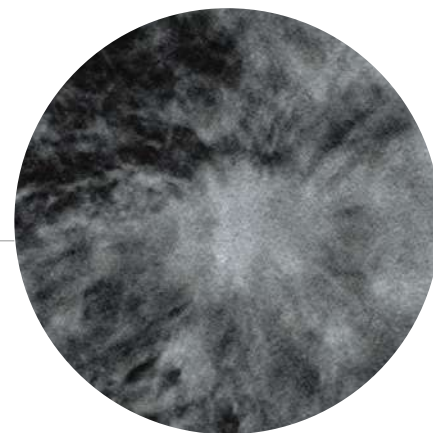
The Tomosynthesis function on AMULET Innovality is suitable for a wide range of uses, offering two modes to cater for various clinical scenarios. Standard (ST) mode combines rapid exposure timing and efficient workflow with a low X-ray dose while High Resolution (HR) mode makes it possible to produce images with an even higher level of detail, allowing the region of interest to be brought into clearer focus.



2D mammography image



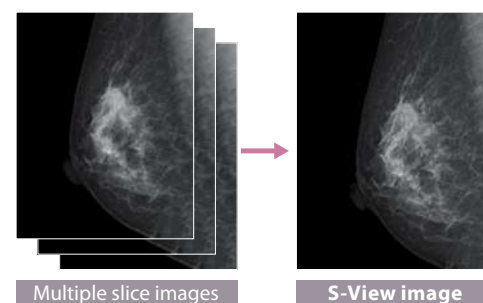
Excellent-m 3D



S-View (synthesized 2D image) function is available

Tomosynthesis by AMULET Innovality automatically produces not only tomograms obtained at 1mm intervals but also a two-dimensional S-View image combining multiple slice images.

With the S-View image showing the overall view added to tomograms offering the views in detail, comprehensive image reading is possible.



ISR (Iterative Super Reconstruction)

Excellent-m 3D

The tomosynthesis iterative super-resolution reconstruction (ISR) method is applied to optimize image quality, achieving significant X-ray dosage reduction.

1. Reducing graininess of image in low-dose tomography

The image patterns are recognized to selectively suppress the patterns that do not exist in human body architectures as noise, to reduce distracting noises in the event of low-dose tomography.

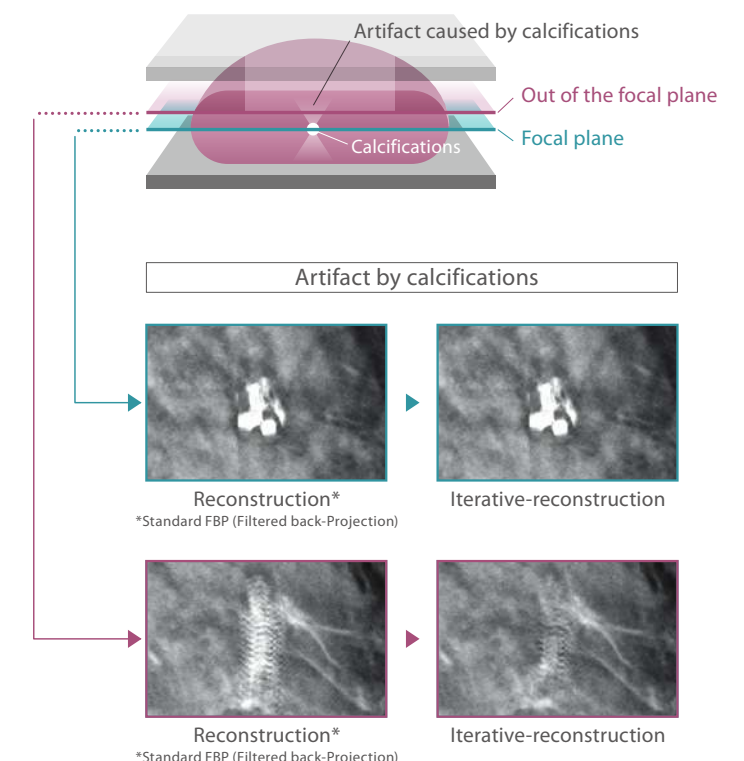
2. Suppressing interference of human body architectures at different depths

(as illustrated on the right)

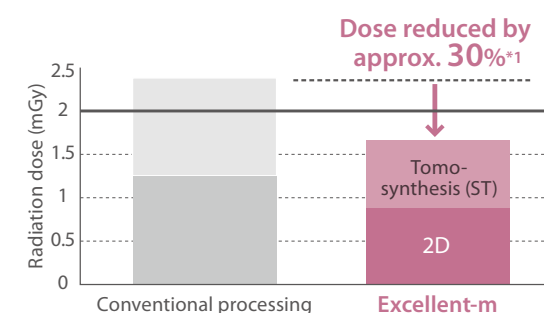
In the process of reconstructing the 3D breast architecture from multiple 2D images, calcification, mass, spicula, mammary gland and other signals that emerge from different depths in the breast architecture are selected off to reproduce the breast architecture at the focus depth with greater fidelity.

3. Restoring the fine-structure

Our super-resolution technology is introduced to restore the fine-structure of calcification and other phenomena, the visibility of which is impaired by the movement of the X-ray tube, to facilitate interpretation of tomosynthesis images.



Offers significantly lower doses than the conventional method



With combination of 2D and Tomosynthesis
Dose of 2 or less mGy is available*2

*1: Equivalent to an image of 40 mm PMMA compared with previous images (Breast thickness of 45 mm, 50% mammary gland, 50% fat)
*2: IAEA guidance level: 3 mGy, guidelines of the Japan Association of Radiological Technicians: 2 mGy

*In-house comparison

2 Tomosynthesis

High quality images for easier diagnosis

Two modes suitable for a range of clinical purposes

HR (High Resolution) mode

• Acquisition angle: $\pm 20^\circ$ • Pixel size: 100/50 μm

With a larger acquisition angle the depth resolution is improved. This allows the region of interest to be defined more clearly and brought into clearer focus.



Additional imaging for complete checkup, grasping morphology, etc.



ST (Standard) mode

• Acquisition angle: $\pm 7.5^\circ$ • Pixel size: 100/150 μm

The smaller angular range and fast image acquisition allow Tomosynthesis scans to be quickly performed with a relatively low X-ray dose.



Check-up, screening, follow-up, etc.



Static face guard for Tomosynthesis imaging

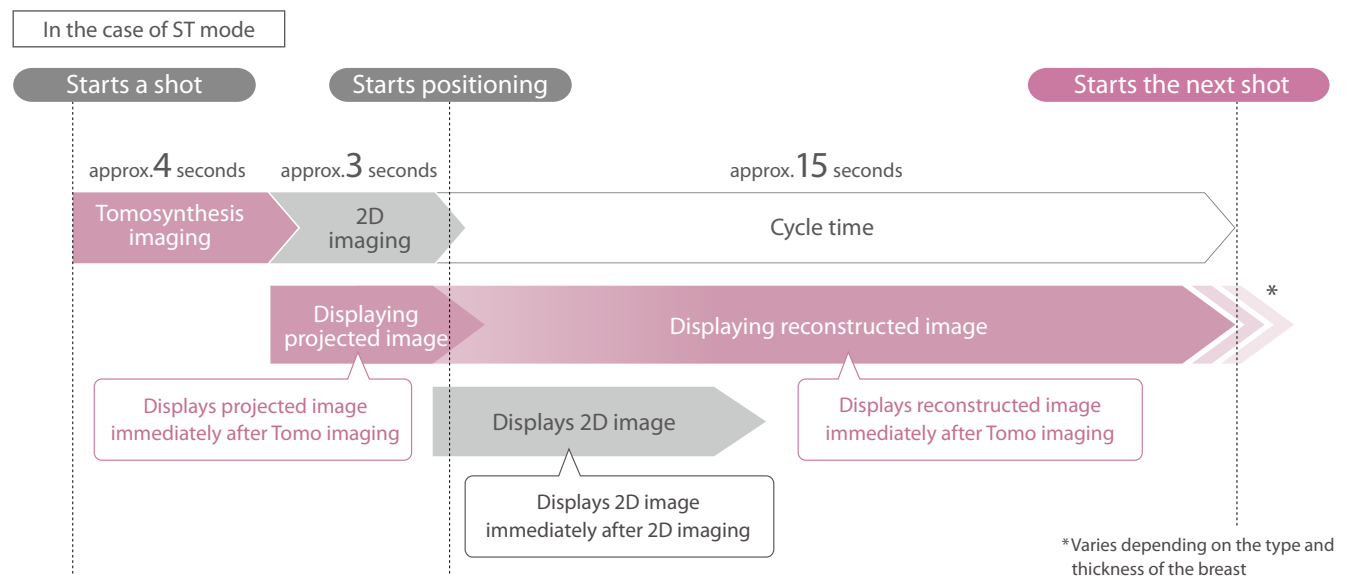
[Face Guard Comfort (898Y200541)] (Accessories)

Fixing the face guard to the device instead of the tube part eliminates movement of the face guard during Tomosynthesis imaging. It will not be reflected at any angle of the ST mode (15 degrees) or HR mode (40 degrees). It can also be used as-is for normal mammography imaging.



Shortens the imaging cycle with a fast display and reconstruction

After a shot, the next shot in either 2D or 3D can be started with a cycle time of approx. 15 seconds.

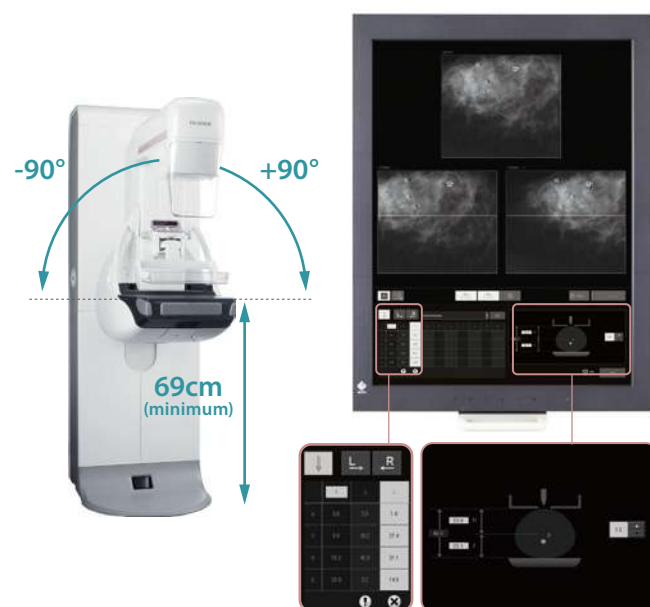


3 Advanced Biopsy System

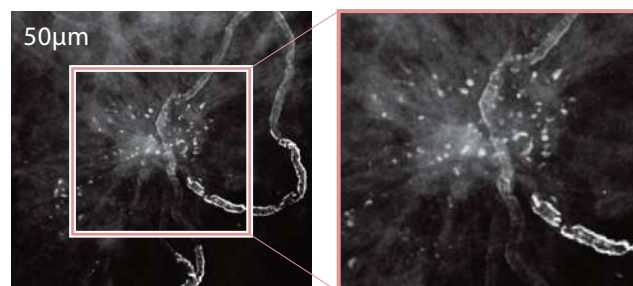
Supports a variety of approach for patients

Biopsy – 50µm image solution (FDR-2000BPY) Accessories

The system is designed to support flexible positioning of tube and detector, from -90° to +90°. Ergonomically designed arm rests and disposable soft pads ensure patient comfort and safe positioning.



- Irradiation field size can be easily adjusted, depending on breast size and procedure needs. Convenient spacers can be used in order to perform needle positioning in extremely thin breasts, too.
- AEC full automatic function is available for both scout (2D) and Tomosynthesis exposures.
- Prior images and studies can be viewed during biopsy, to further improve accuracy.
- Variable image resolution for different needs



Lateral approach (898Y101490) Accessories

Thanks to the adapter, needle positioning can be performed both vertically and laterally. Accessing to the compressed breast in two directions ensures precise targeting of lesions which might be in a difficult position.



Supports a variety of needle

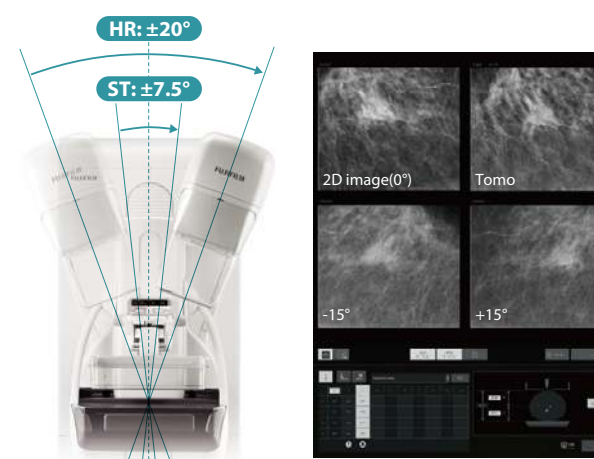
Both CNB/FNB/Hook wire and VAB needles can be used in a wide range of sizes, for various models and manufacturers.

Refer to technical specifications and to local representatives for further information.



Tomosynthesis Biopsy

Targeting is supported using both tomosynthesis and stereoscopic images: the choice depends on operator confidence and lesion positioning. Tomosynthesis acquisition can be performed in both ST (Standard) and HR (High Resolution) modes, according to desired accuracy and lesion size.



- Using a tomosynthesis image, it makes it possible to target the lesion which cannot be found on 2D image.
- Thanks to easier lesion position identification, tomosynthesis targeting results in a more efficient workflow and more simple operation.

Stereo imaging



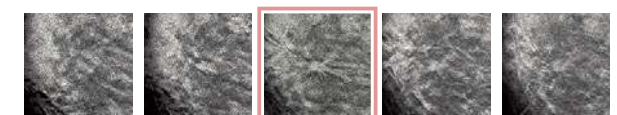
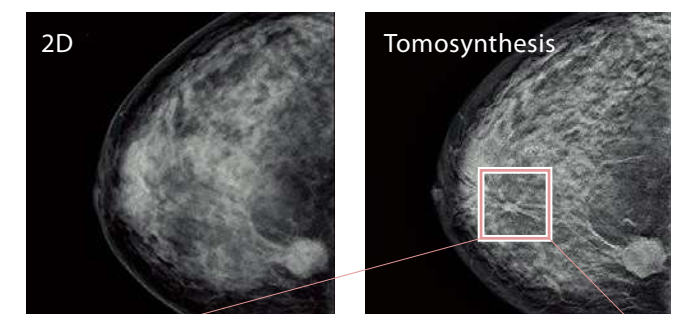
- Overlapping breast structures make lesions less visible
- Difficult to identify a particular region

Tomosynthesis



- Reconstructed images show overlapping structures separately
- Easier to locate a target than with the conventional method

- Both Tomosynthesis and stereotactic support for needle positioning



The highest image quality and workflow efficiency for interventional procedures



4 AMULET Harmony

Easy operation and patient comfort



AMULET Harmony incorporates a range of mammography solutions specifically designed to maintain a harmonious examination environment and foster an atmosphere of trust between mammographers and their patients.



Mood lighting to ease patient anxiety

Warm indirect lighting is used to illuminate the exposure stand, helping patients to relax and allowing examinations to be performed with minimal stress.

Decorative labels adaptable to each room environment

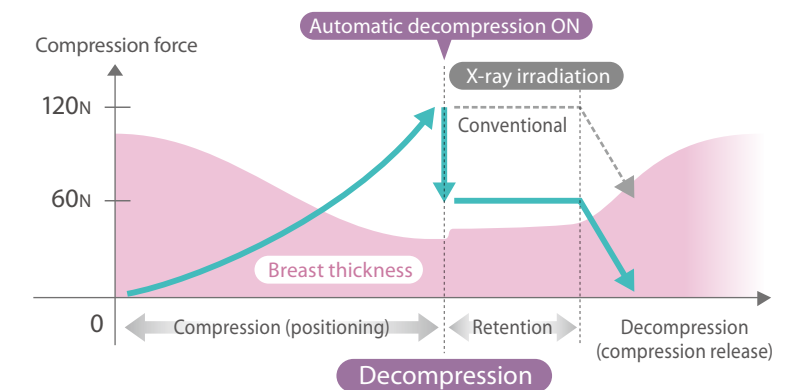
Five different stand labels are available to add a gentle ambience. Each site can choose a stand appearance that best suits the examination environment, thus relieving patient stress and anxiety.



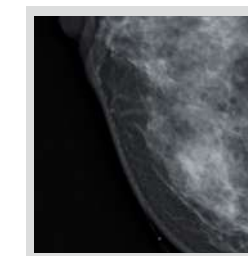
Automatic compression reduction control (Comfort Comp)

This function will reduce the compression pressure within a range (within + 3 mm) in which the thickness of the breast does not change after normal breast compression is completed for the purpose of alleviating the patient's pain. For breast compression, there is a phenomenon (hysteresis*) where the thickness of the breast becomes thinner during decompression after compression than during compression even with the same pressure. By utilizing this phenomenon, it is possible to automatically decompress it so that the breast condition remains almost the same even if the duration of maximum compression pressure is reduced.

* Hysteresis: A phenomenon where the state of a substance or system depends on the course of force added in the past.
L. Han, M. Burcher, and J.A. Novle. Non-invasive Measurement of Biomechanical Properties of in vivo Soft Tissues. MICCAI 2002, LNCS 2488, pp. 208-215, 2002.

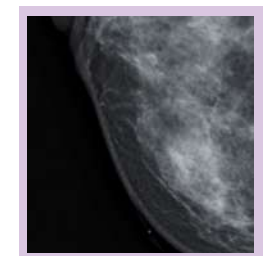


Conventional



29kV 44mAs 0.83mGy
33mm 102N

Comfort Comp



29kV 44mAs 0.83mGy
34mm 62.8N

Fit Sweet Paddle (401Y100131, 401Y120033, 401Y200001, 401Y100130) [Accessories](#)

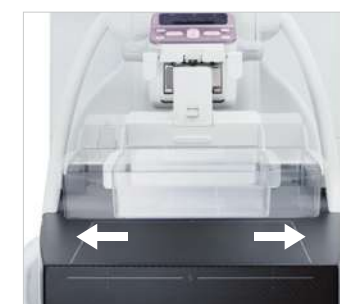
This type of compression paddle fits to the shape of the breast, allowing pressure to be evenly applied while holding the breast securely and ensuring the breast tissue is adequately separated. Models with the lateral shift function are also available in the lineup.



Shift Compression Paddle

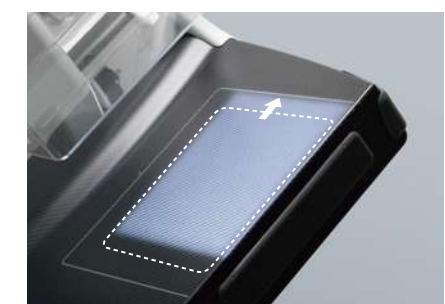
18×24 cm (401Y120038, 401Y120046, 401Y200001) [Accessories](#)

This small compression paddle can be positioned in the middle, right or left side of the detector at any time of examination according to the positioning of the patient.



24×30 cm (401Y120025, 401Y100124) [Accessories](#)

When this compression paddle is used with 18×24 cm radiation field, the radiation field remains in the center for the CC position, while shifting to the upper portion of the detector when the C-arm is rotated to a MLO or ML position.





64ch/128slice CT System

FCT iStream



REiLi

FUJIFILM

FUJIFILM Healthcare Corporation

Akasaka 9-chome, Minato-ku, Tokyo 107-0052, Japan
<https://www.fujifilm.com/fhc/en>

FCT iStream
FUJIFILM Healthcare Corporation
2-1, SHINTOYOFUTA, KASHIWA-SHI, CHIBA, 277-0804 JAPAN

SYNAPSE 3D
FUJIFILM Corporation
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN

●DICOM is the registered trademark or trademark of the National Electrical Manufacturers Association in the United States for its standards publications relating to digital communications of medical information. ●FUJIFILM and FUJIFILM logo are registered trademarks or trademarks of FUJIFILM Corporation. ●FCT, FCT iStream and SYNAPSE are registered trademarks or trademarks of FUJIFILM Corporation in Japan and other countries. ●SCENARIO, SCENARIO View, IntelliEC, IntelliODM, iTilt, HiMAR, CardioHarmony, Sentinel and Sentinel Analytics are registered trademarks or trademarks of FUJIFILM Healthcare Corporation in Japan and other countries. ●This product is a CLASS 2 LASER PRODUCT. ●3D images are processed by a medical workstation. ●Specifications and external appearance are subject to change without prior notice. ●For proper use of the system, be sure to read the operating manual and the related documents prior to placing it into service. ●Some photographs shown in this brochure include optional items. Please consult with a member of our staff for details.



FCT iStream



LESS IS MORE

Technological innovations now deliver high-resolution, low dose images at high-speed, driving demand for X-ray CT systems in applications from prevention and diagnosis to treatment. FCT iStream supports these CT applications with AI enhanced image processing and workflow to accommodate and address today's increasing patient volume and dose concerns.

Conventional CT system*

FCT iStream



REiLi, FUJIFILM's medical AI technology brand, enables support for physicians in the diagnosis and streamlining of the workflow for diagnostic imaging by combining the image processing technology we have cultivated with the most advanced AI technology to realize improved medical care.

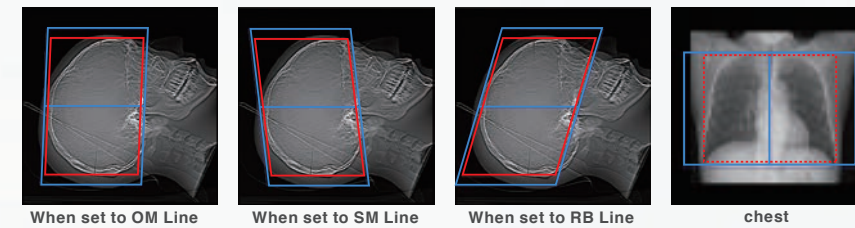


* : Conventional CT system is our 64ch CT system without SynergyDrive.
SynergyDrive is a generic term for technology related to workflow improvement. It includes functions developed by utilizing Machine Learning, an AI technology. The performance and accuracy of the system do not automatically change after implementation.

EASE OF USE AND EFFICIENCY

SynergyDrive

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



AutoPose & iTilt

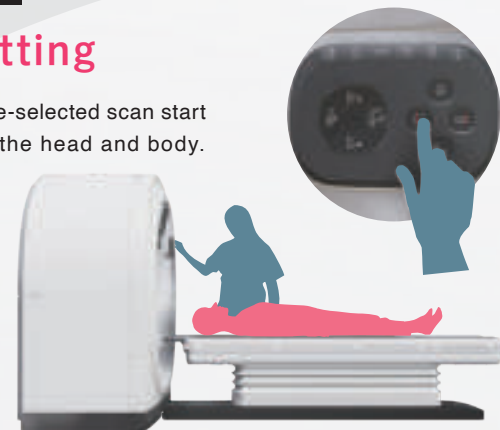
FCT iStream automatically* sets the scanning range using the scanogram image by AutoPose function. Since the margins can be set in advance, the range can be customized according to the preference of the facility. iTilt automatically creates and enables observation of tilted images during scanning.

*:The automatic selection must be checked and the operator may adjust, if necessary.

02 Positioning

One button setting

The table can be set to the pre-selected scan start position with one button on the head and body. Table height and table stop position can be customized according to the operation.



03 Scanogram



04 Scan



60ips high-speed image reconstruction

Image reconstruction is performed at a maximum speed of 60 ips in parallel with scanning (data acquisition). Images can be checked during scanning, enhancing workflow.

01 Patient registration

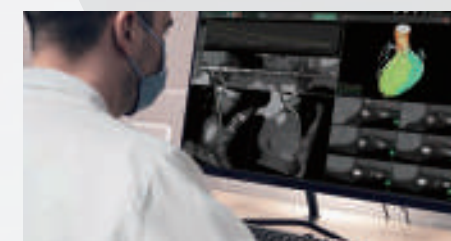


Quick Entry Intuitive GUI design

Intuitive and easier operation with customizable GUI. Quick Entry mode enables simple operation for all users with fewer buttons and larger icons.

1 CLICK → 2 CLICK → 3 PRESS "START" button

05 Processing/Transfer



Parallel Image transmission to SYNAPSE 3D

The reconstructed image is displayed on the console and also saved in SYNAPSE 3D for parallel processing. Eliminates the need to send DICOM images from the console and improves the operability of examinations.

EXPERIENCE ADVANCED CLINICAL WORKSTATION

SYNAPSE®
3D

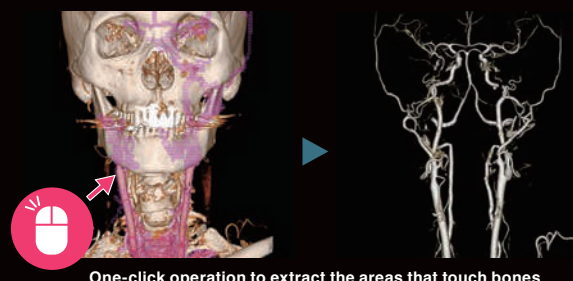
SYNAPSE® 3D's advanced image analysis technology aids clinical interpretation, reporting, and treatment planning. Especially, automatic organ segmentation technology enables fast and effective workflow, powered by REiLI, FUJIFILM's AI brand. With a series of high-tech applications developed in collaboration with clinical specialists, SYNAPSE 3D quickly and accurately delivers imaging result that promotes effective care collaboration.



Application Expanding SYNAPSE 3D Clinical analysis

•Smart tracking

Based on the previously stored information, the areas recognized as blood vessels are extracted.



One-click operation to extract the areas that touch bones

•Vessels

Vessels are extracted with one click by using image recognition technology.

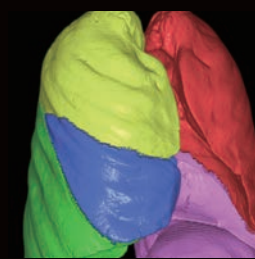


General CPR

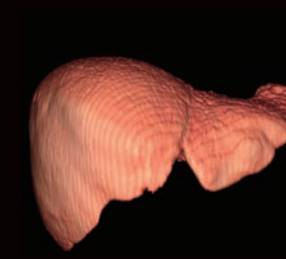
Cerebral Arteries and Vein separation

•Organs

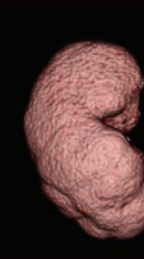
REiLI makes it happen to extract organs and simplify your work.



Lung lobe



Liver



Kidney



Colon

•Bone removal

Bones are extracted or removed with one click based on the CT value and the shape of the region of interest recognized by REiLI technology.



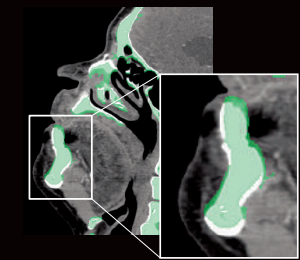
Carpal bones removal



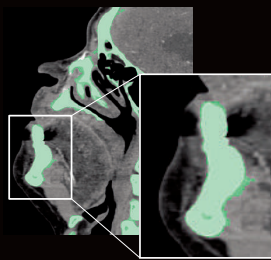
Lower extremity bones removal

•Non-rigid registration

Non-rigid registration enables SYNAPSE 3D to match an organ in images acquired at different phases and different time points.



Rigid Registration



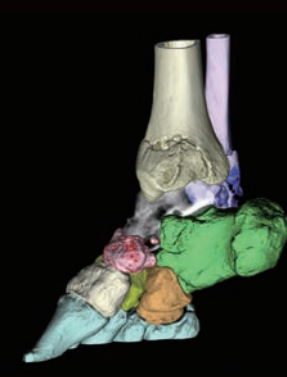
Non-rigid Registration



Lung Analysis



Virtual Endoscopy



Orthopedics

LOW DOSE, HIGH QUALITY IMAGE

Intelli IPV

Our iterative reconstruction method, Intelli IPV, provides images that maintain their natural texture even at high noise reduction rates and their excellent visibility even at low doses, and does not require a dedicated operating room or additional hardware.



FBP (Filtered back projection)



Conventional iterative reconstruction



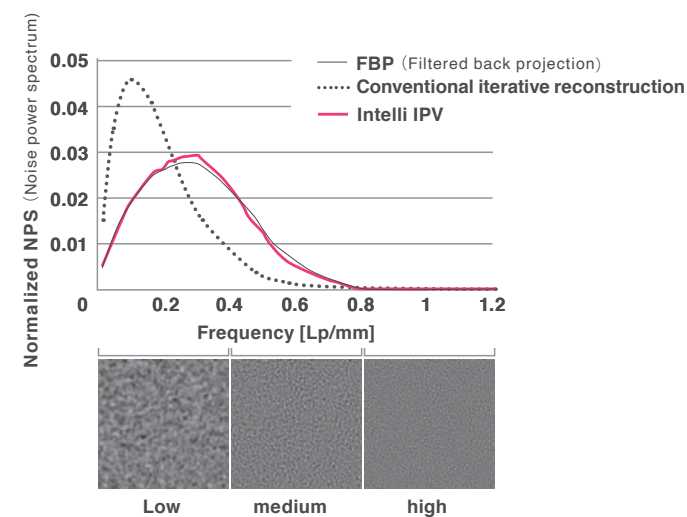
Intelli IPV

Compared to FBP
(Filtered back projection)
**Image noise reduction
MAX**

**90%
DOWN**

**Dose reduction
MAX
83%
DOWN**

While adjusting the texture at a uniform ratio from high frequency to low frequency, the physical properties that affect visibility are made as close as FBP.



IntelliEC Plus

IntelliEC Plus is the auto exposure control function considered with iterative reconstruction parameters. It supports accurate low-dose scanning with simple operations.

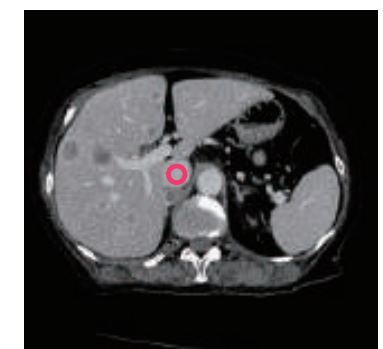


Noise reduction ratio
by iterative reconstruction

Scanning

Iterative
reconstruction

— Normal AEC
— IntelliEC Plus



IntelliODM

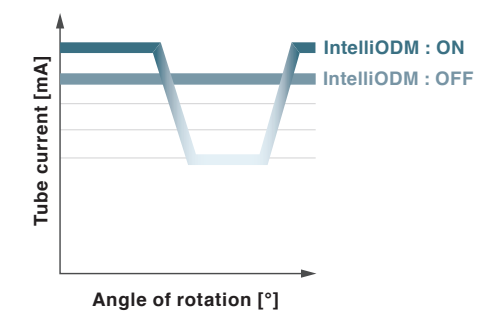
IntelliODM organ-based tube current modulation reduces dose from the anterior side where locate radiation sensitive anatomy such as lenses as much as 30% without any image quality compromise.



OFF



ON



*1 : It is obtained in the abdominal region.

*2 : Compared to FBP. It was measured using Intelli IPV intensity level Strong5 and tested to 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. It was measured at 0.625 mm slice thickness using Intelli IPV intensity level Strong5 and tested to 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.

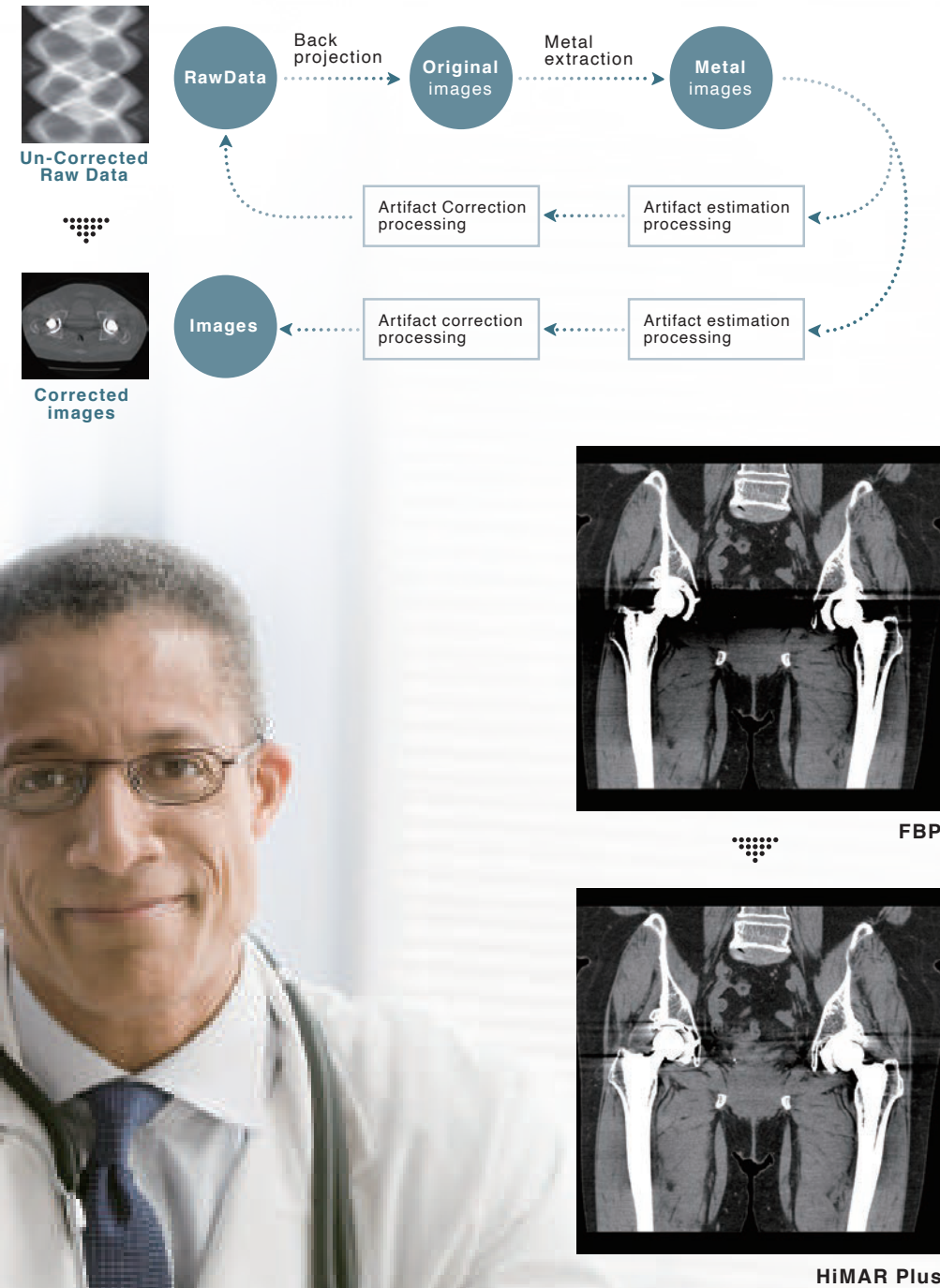
IPV stands for Iterative Progressive reconstruction with Visual modeling.

Intelli IPV was developed using Machine Learning, an AI technology. The performance and accuracy of the system do not automatically change after implementation.

The clinical images are taken with the Whole Body X-ray CT System SCENARIA View.

HiMAR Plus

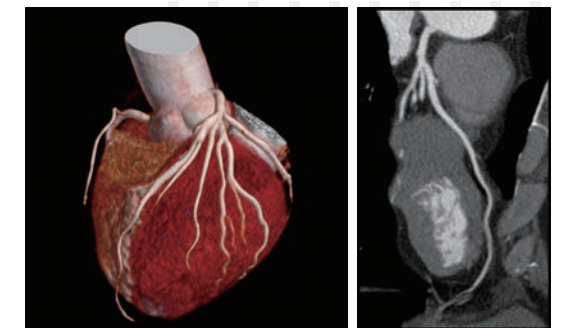
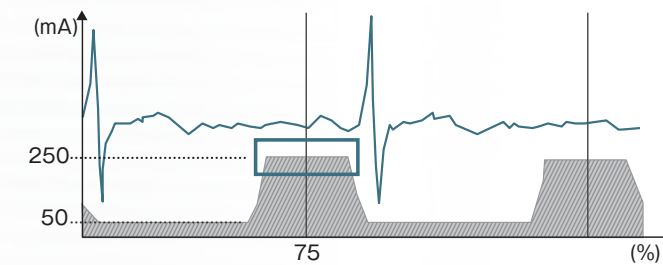
HiMAR Plus reduces metal artifacts using an iterative processing to estimate the artifact. HiMAR Plus strength can be varied according to the application.



EASIER TO USE WIDER USAGE

IntelliEC Cardiac

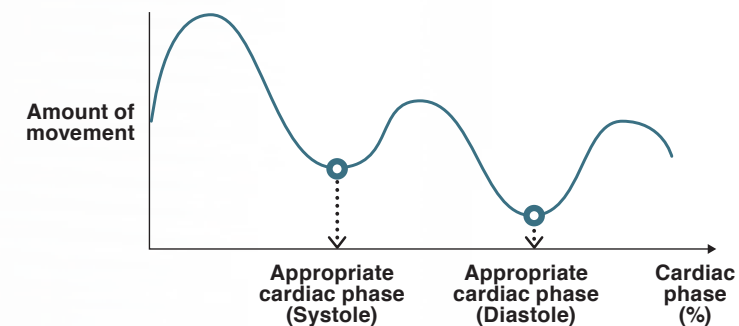
IntelliEC Cardiac reduces dose using electrocardiogram information. Dose modulation can be applied to minimize tube current during non-target phases, including resting phases of mid-diastole and end-systole.



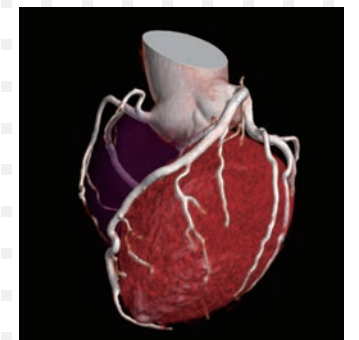
Reconstructed cardiac phase 75%

CardioHarmony

CardioHarmony enhances cardiac CT workflow by automatically* detecting and reconstructing cardiac phases with minimal motion.



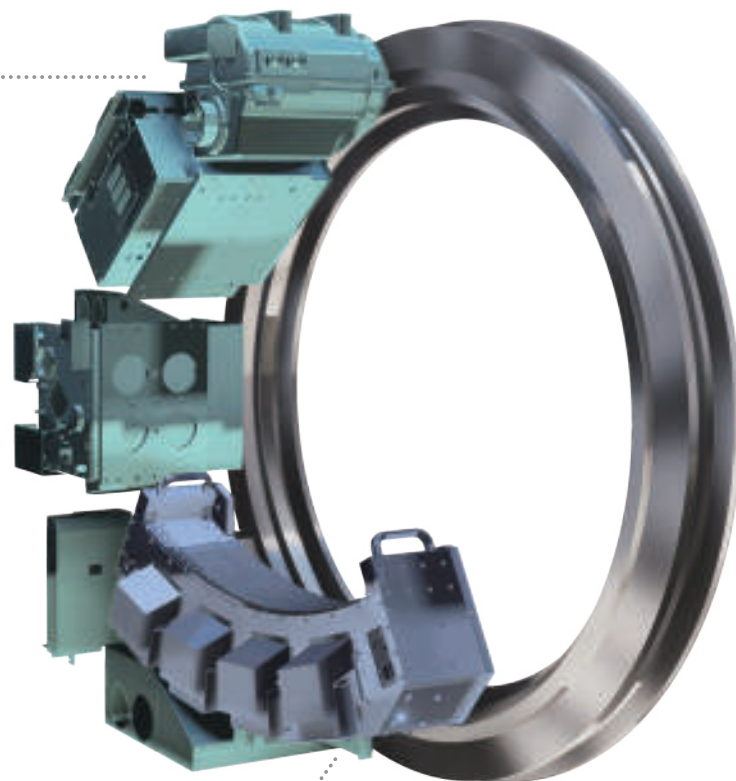
* : The automatic selection must be checked and the operator may adjust, if necessary.



INVISIBLE TECHNOLOGY SHAPING THE VISIBILITY

Highly efficient X-ray generation system

FUJIFILM's unique high-efficiency high-voltage generator and 6MHU X-ray tube assembly achieves a high output of 60kW (maximum 670mA) with a power supply capacity of 75kVA. It supports wider scan parameter settings at low tube voltage scanning in contrast study.

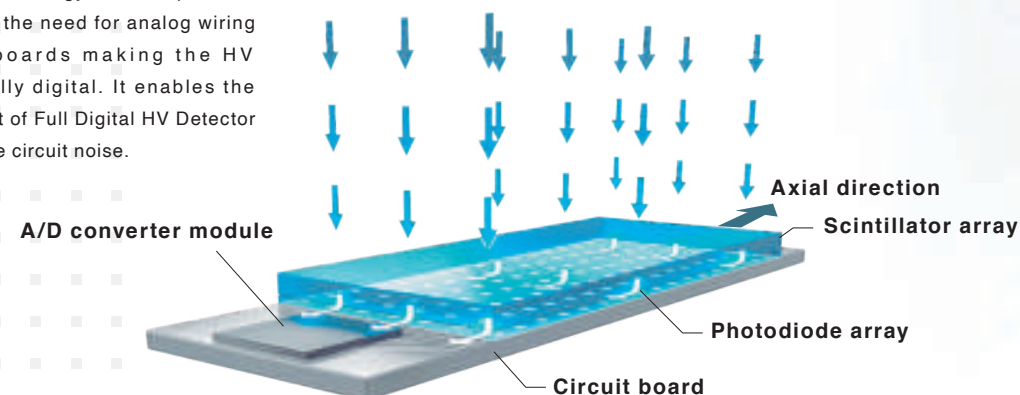


Full Digital HV Detector

The Full Digital HV Detector system is a newly designed detector with MaxiLight technology to contribute achieving high-quality images.

MaxiLight Technology

MaxiLight technology makes it possible to eliminate the need for analog wiring between boards making the HV Detector fully digital. It enables the achievement of Full Digital HV Detector to reduce the circuit noise.



EASY TO INSTALL EASY TO MANAGE

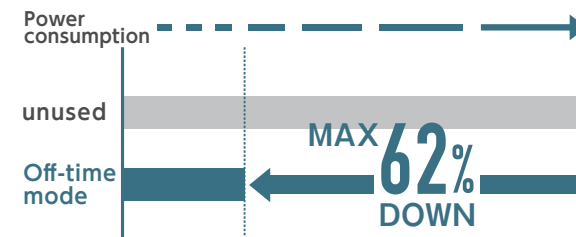
3-Unit Design Compact Space

The entire system comprises just three components; gantry, patient table, and operator console. No additional units such as the system transformer are required, so the space in the CT room can be maximized for clinical use.



Eco mode

Eco mode has two functions (On-time Standby and Off-time mode). The On-time Standby function controls the units mounted in the gantry, thereby reducing power consumption by up to 41% compared to Eco mode OFF. The Off-time mode reduces the electricity consumption of the detector while maintaining the operating readiness of the detector when the system is power-off. With Off-time mode, the power consumption during standby is reduced by up to 62% compared to when not in use.



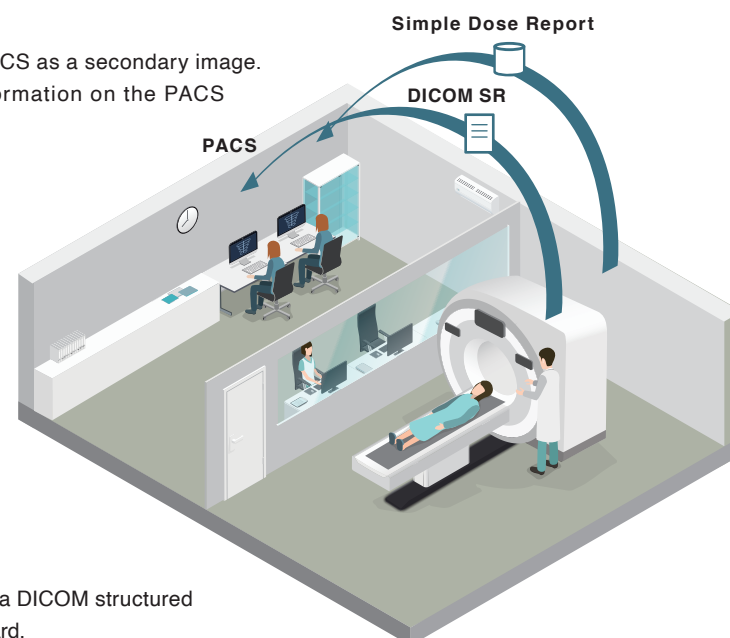
Dose Management for various purposes

Simple Dose Report

Dose information can be transferred to the PACS as a secondary image. It enables the confirmation of the dose information on the PACS Viewer same as DICOM images.

Report example

Dose Information				
Patient Name	P001 T000			
Patient ID	1234567890			
Height / weight	170.0 cm / 70.0 kg			
Age / gender	33 / M			
Study ID	00000000000000000000			
Study date/time	2022/07/20 11:14:00			
Description	STUDY C00000			
Total DLP : 2288.7 mGy·cm				
No.	Scantype	mAs	kV	CTDIvol
1	Normal	80.0	120	15.4
2	Volume	120.0	120	12.5
3	Volume	120.0	120	12.5



DICOM SR

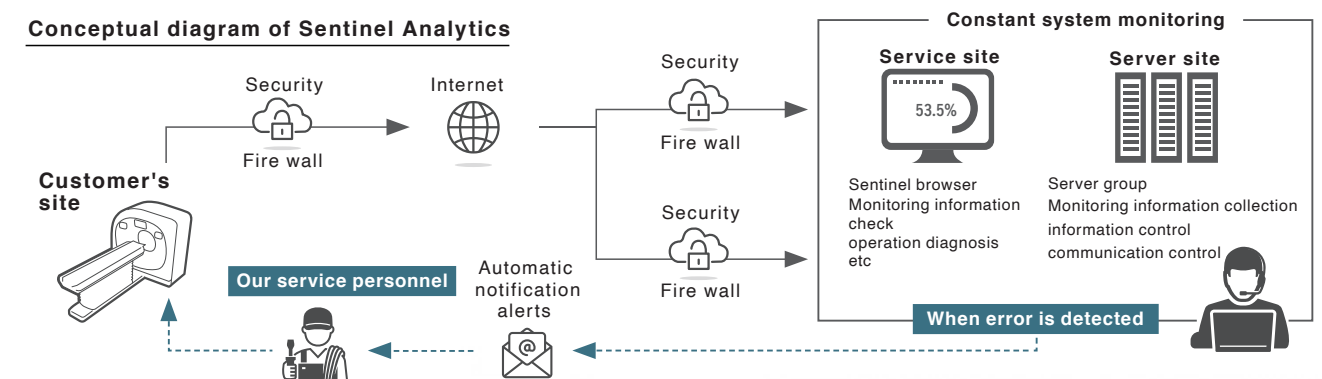
Dose information can be sent to PACS, etc. as a DICOM structured report (DICOM SR) along with the DICOM standard.

Sentinel Analytics

Improving the uptime through predictive failure diagnosis

Your Fujifilm CT 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.

Conceptual diagram of Sentinel Analytics



Major features and advantages of Sentinel Analytics



Constant system monitoring
Sentinel provides 24-hour monitoring of the system status.



Automatic notification feature
Alerts are automatically transmitted to our service site when the Sentinel server detects abnormalities in the system as well as when it detects poor performance. This prevents failures before they occur. In the event of a failure, an immediate response will be provided.



Security
Such features as encryption of communication data and communication based on mutual authentication are available to protect patient personal information. Furthermore, the specification does not allow recognition of patient personal information included in Patient Lists and images (such as a patient's name, sex, weight, age, and date of birth) on the Sentinel server and the Service site.

FUJI MEDICAL *DRY IMAGING* FILM

Fuji Dry Imaging Films technology "ECO-DRY" is environmentally friendly. ECO-DRY advantages include our development of new liquid-coating technology, which minimizes the need for harmful organic solvents like methyl-ethyl-ketone and toluene in the thermal development of light-sensitive materials.

ECO-DRY employ unique aqueous solvents that are free from unpleasant odors and create neutral colored image so crisp, they're indistinguishable from those printed on wet halide film.



DI-HL/DI-HLc

The high quality DI-HL and DI-HLc films contribute to produce clear images on the "DryPix series" DRY Laser Imagers. These films have neutral color tones that produce images comparable to those made by wet processing.

- | | |
|-------------------------|-------------------------|
| ■ DI-HL | ■ DI-HLc |
| · 35×43 100 sheets/pack | · 35×43 100 sheets/pack |
| · 26×36 150 sheets/pack | · 26×36 150 sheets/pack |
| · 25×30 150 sheets/pack | · 20×25 150 sheets/pack |
| · 20×25 150 sheets/pack | |



DI-ML

DI-ML is a premium Dry Imaging Laser Film that is dedicated for mammography. It has a D-max of 4.0, bluer film color, and better sharpness compared to DI-HL. Applicable for "DryPix series" DRY Laser Imagers.

- DI-ML
- 26×36 150 sheets/pack
- 25×30 150 sheets/pack
- 20×25 150 sheets/pack



DI-HT

DI-HT applies FUJIFILM's patented Micro isolation technology for long storage life and better transparency to attain enhanced image quality. Applicable for DRYPIX2000.

- DI-HT
- 35×43 100 sheets/pack
- 26×36 100 sheets/pack
- 25×30 100 sheets/pack
- 20×25 100 sheets/pack



DI-AL

DI-AL applies FUJIFILM's DRY Laser Imager FM-DPL.

- DI-AL
- 35×43 100 sheets/pack
- 26×36 150 sheets/pack
- 20×25 150 sheets/pack



DI-AT

DI-AT applies FUJIFILM's patented Micro isolation technology for long storage life and better transparency to attain enhanced image quality. Applicable for DRYPIX1000 and DRYPIX3000.

- DI-AT
- 35×43 100 sheets/pack
- 26×36 100 sheets/pack
- 20×25 100 sheets/pack