



FUJIFILM

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SCENARIO View

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SYNAPSE 3D

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

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Valuing the Future of Clinical Care

SCENARIO View delivers the next generation clinical practice for making peoples healthy in the future.

In the future, a variety of diseases are expected to see an even greater increase. The importance of prevention, diagnosis, and treatment is further increasing to maintain the healthcare system and improve patients' quality of life.

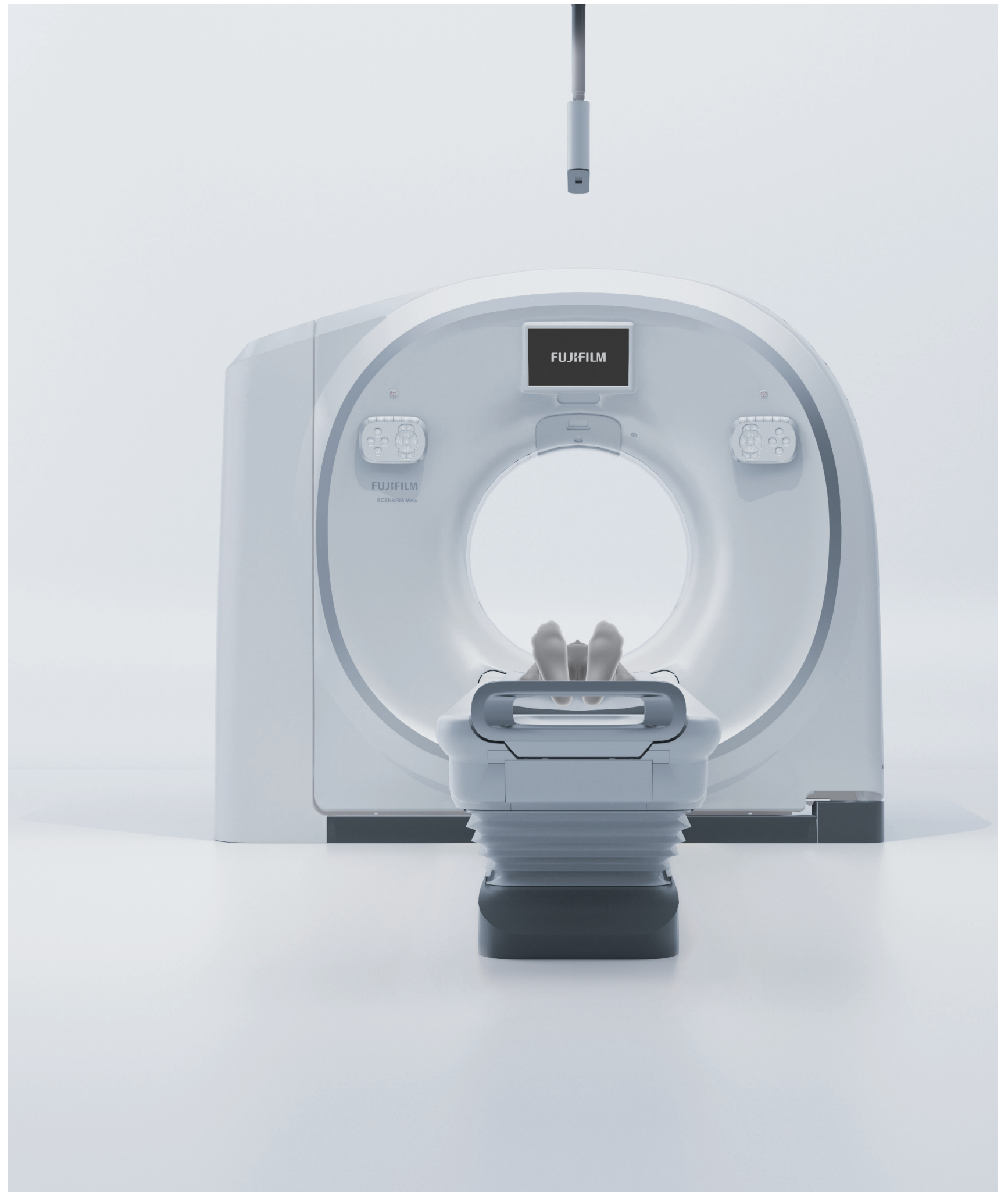
To support such medical environment and deliver a more accurate, less invasive, and more efficient examination environment in the future, highly functional multipurpose CTs can be used for cardiac examinations and for multipurpose and wide-ranging examinations.

Fujifilm's experience and AI technology combining, it reaches a much higher position of CT system.

That is SCENARIO View.



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.



SynergyDrive

New Workflow Solution for the AI Age

The workflow supporting functions, which utilize AI technologies such as deep learning, help solve various issues in medical practice and contribute to increased efficiency and improved quality of medical care.



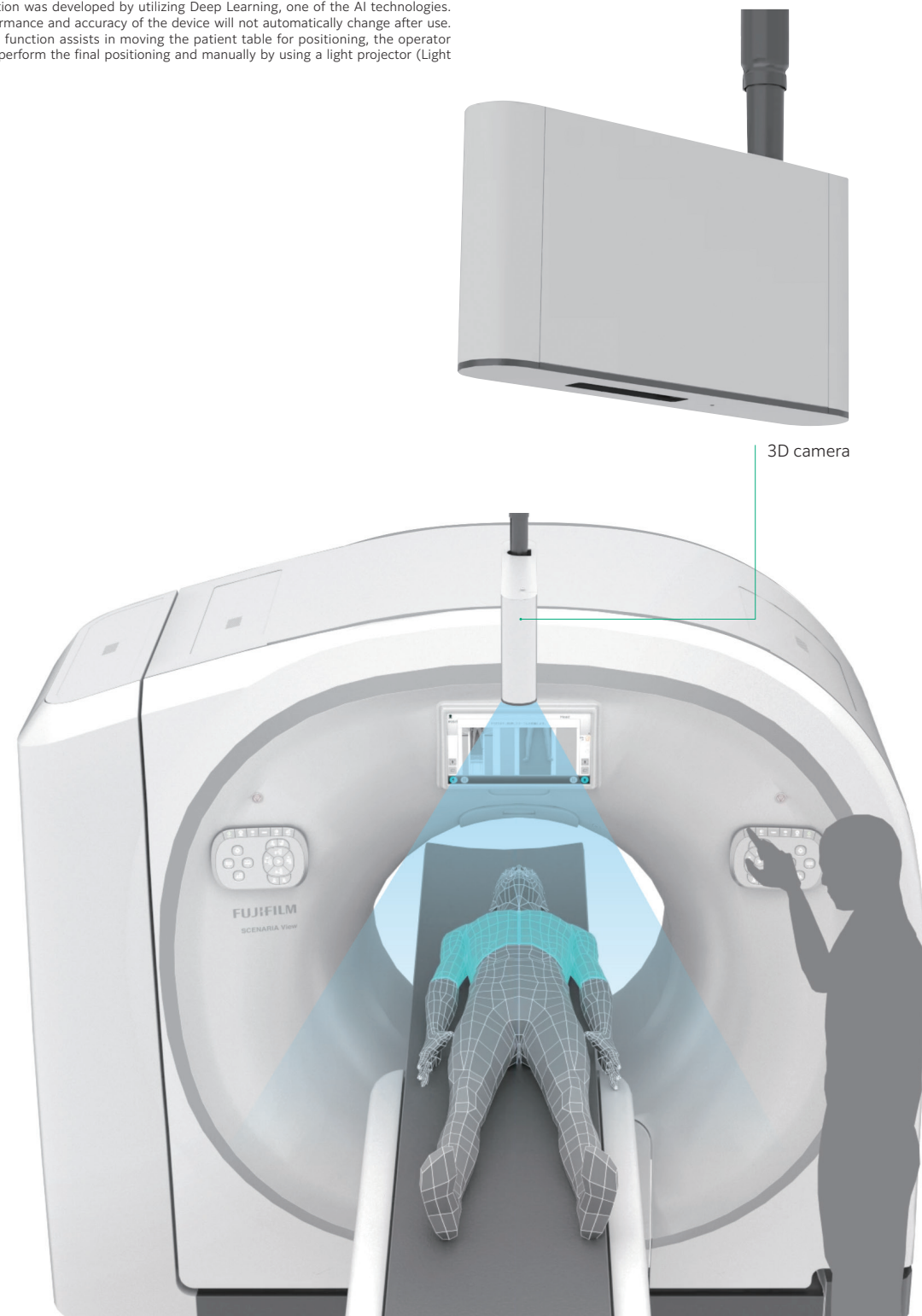
*1 AutoPositioning is an option.
 *2 This function was developed by utilizing Deep Learning, one of the AI technologies. The performance and accuracy of the device do not automatically change after use.
 *3 Since this function assists in moving the patient table for positioning, the operator needs to perform the final positioning and manually using a light projector (Light localizer).
 *4 The scan range automatically calculated requires check and adjustment by the operator.

AutoPositioning

Appropriate Positioning with a Single Button Push

The 3D camera detects the feature points of patient and predicts the position to acquire the scanogram and display on the Gantry monitor. The camera also supports the Lateral slide table function, which can be set with a single push of a button. AutoPositioning^{*1} images can be displayed on the console as well.

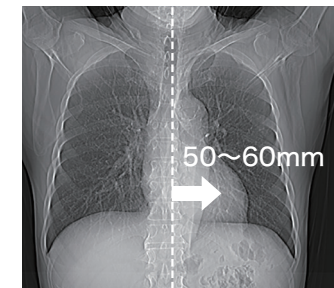
^{*1} AutoPositioning is an option.
This function was developed by utilizing Deep Learning, one of the AI technologies. The performance and accuracy of the device will not automatically change after use. Since this function assists in moving the patient table for positioning, the operator needs to perform the final positioning and manually by using a light projector (Light localizer).



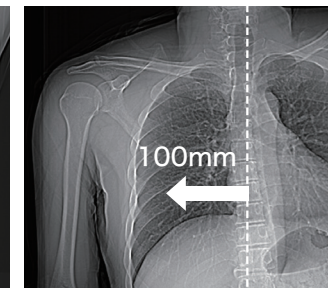
Lateral Slide Table Function

Easier Positioning of the Region to Be Examined

The patient table can move horizontally up to 200 mm, making it easier to position the scanned region in the center, even in cardiac or orthopedic areas, such as the shoulder. This is expected to improve examination efficiency.



Positioning the heart near the center of the field of view

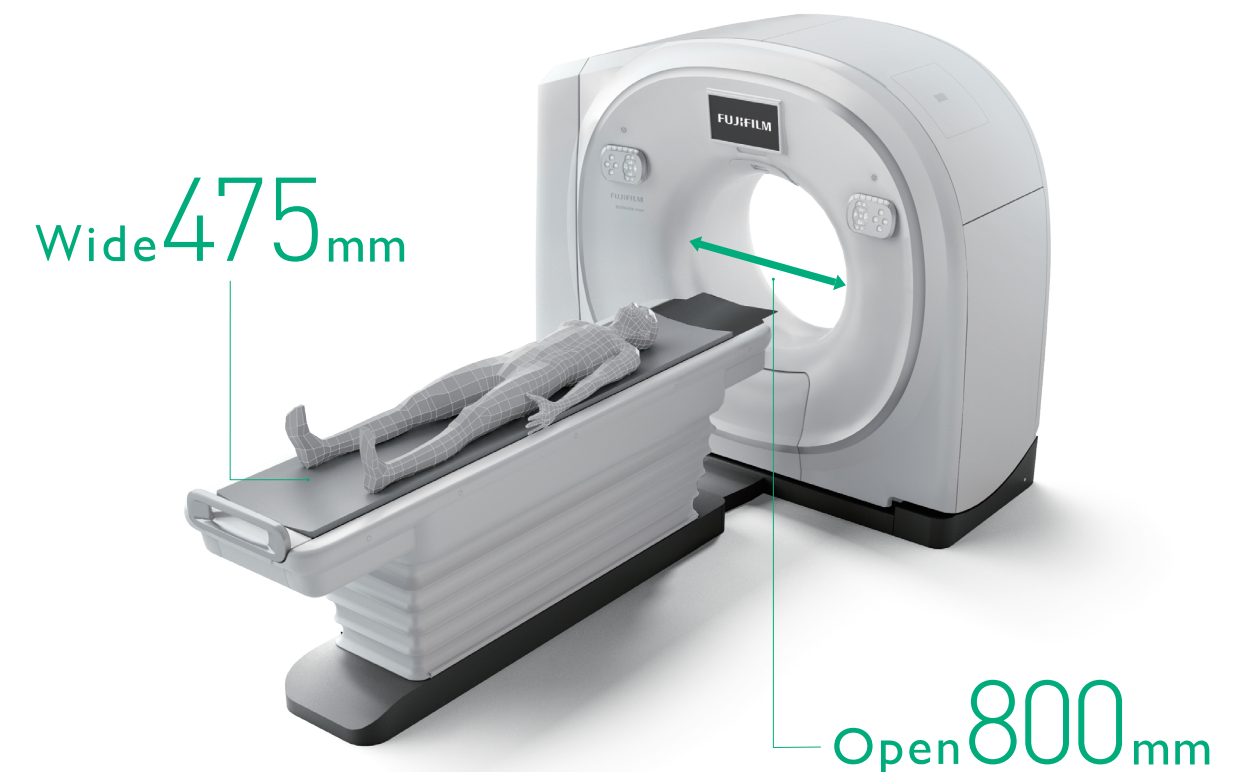


Positioning the extremities near the center of the field of view



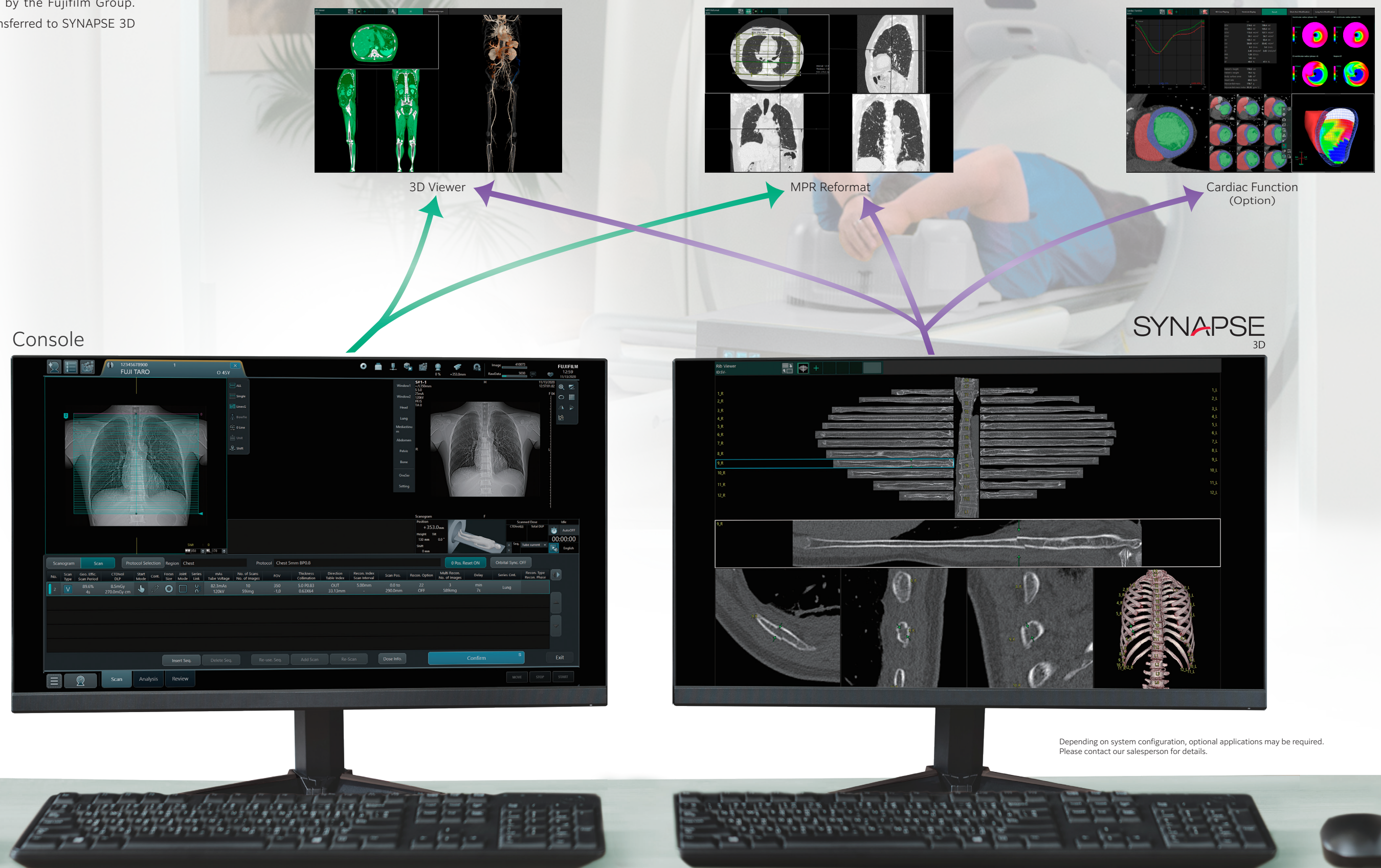
Examination Environment Friendly to Patients

In addition to the spacious 800 mm aperture diameter, the aperture's smooth shape improves accessibility to the patient.



Supports Efficient Operations by Making the Platform Common

The console is equipped with image processing technology cultivated by the Fujifilm Group. Image data can be transferred to SYNAPSE 3D in parallel.



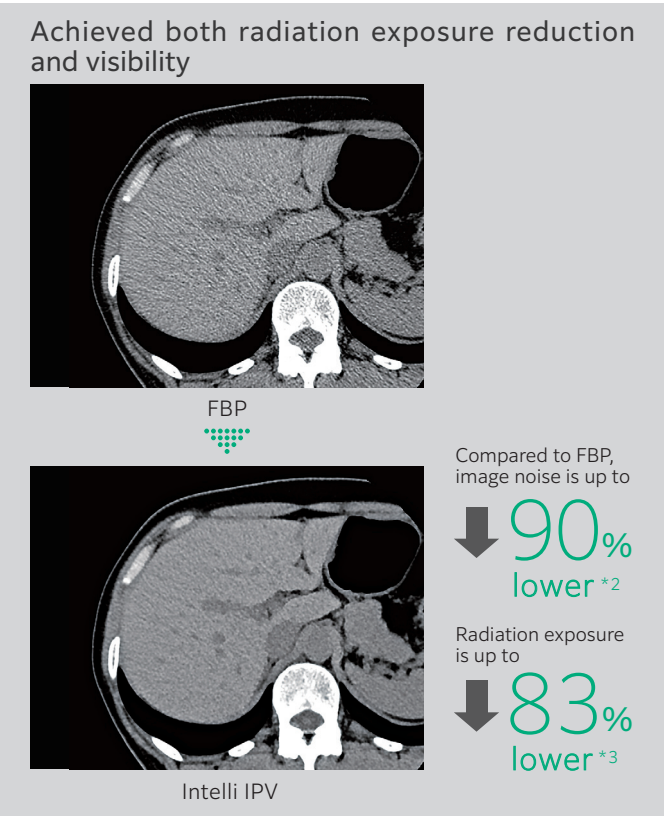
Depending on system configuration, optional applications may be required.
Please contact our salesperson for details.

Intelli IPV

Fujifilm's Experience and the Utilization of AI Technology^{*1}, Enable Both Reduced Exposure and High Visibility

Intelli IPV is an image reconstruction technique developed with AI technology. Highly accurate processing has been speeded up by using images obtained through sufficient iterative processing as training data. Based on the Fujifilm's own Visual Model, reconstruction processing using raw data brings the NPS (Noise Power Spectrum) closer to the FBP (Filtered Back Projection) and keeps the image texture, even at high noise reduction rate. It also reduces image noise by up to 90%^{*2} and radiation exposure by up to 83%^{*3}. The ability of detecting low-contrast is two times better at the maximality.^{*3}

Achieved both radiation exposure reduction and visibility



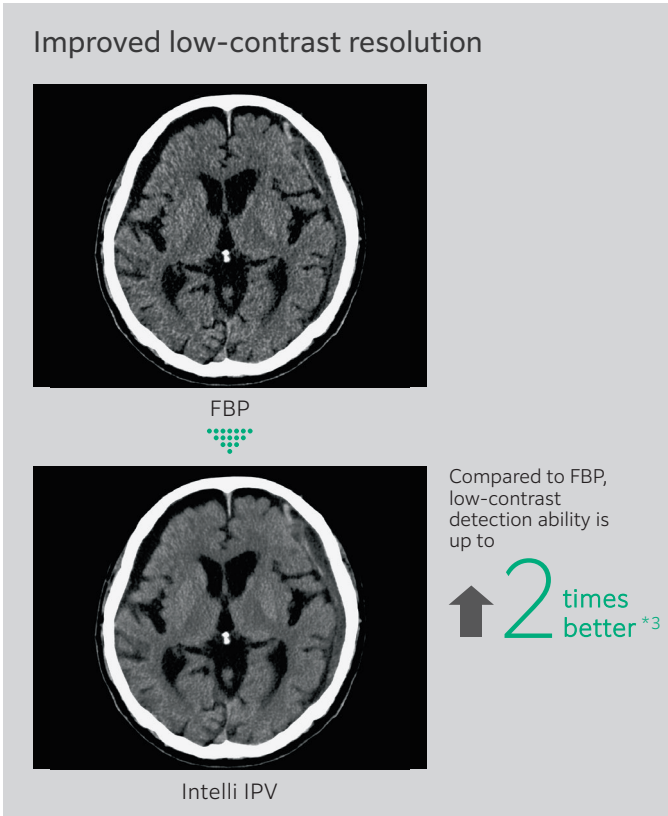
FBP

Intelli IPV

Compared to FBP, image noise is up to **90% lower**^{*2}

Radiation exposure is up to **83% lower**^{*3}

Improved low-contrast resolution



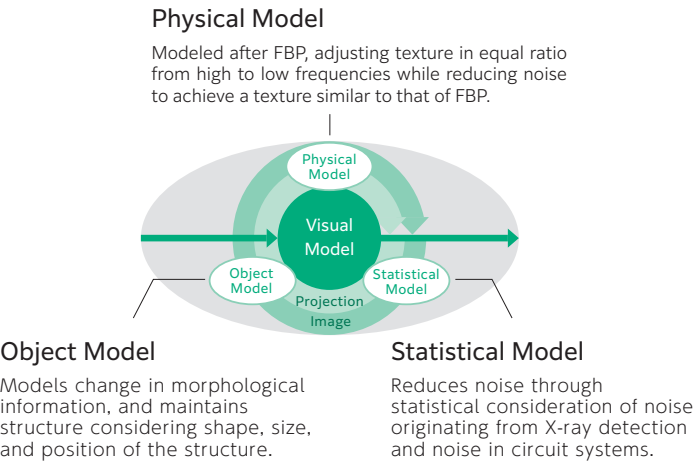
FBP

Intelli IPV

Compared to FBP, low-contrast detection ability is up to **2 times better**^{*3}

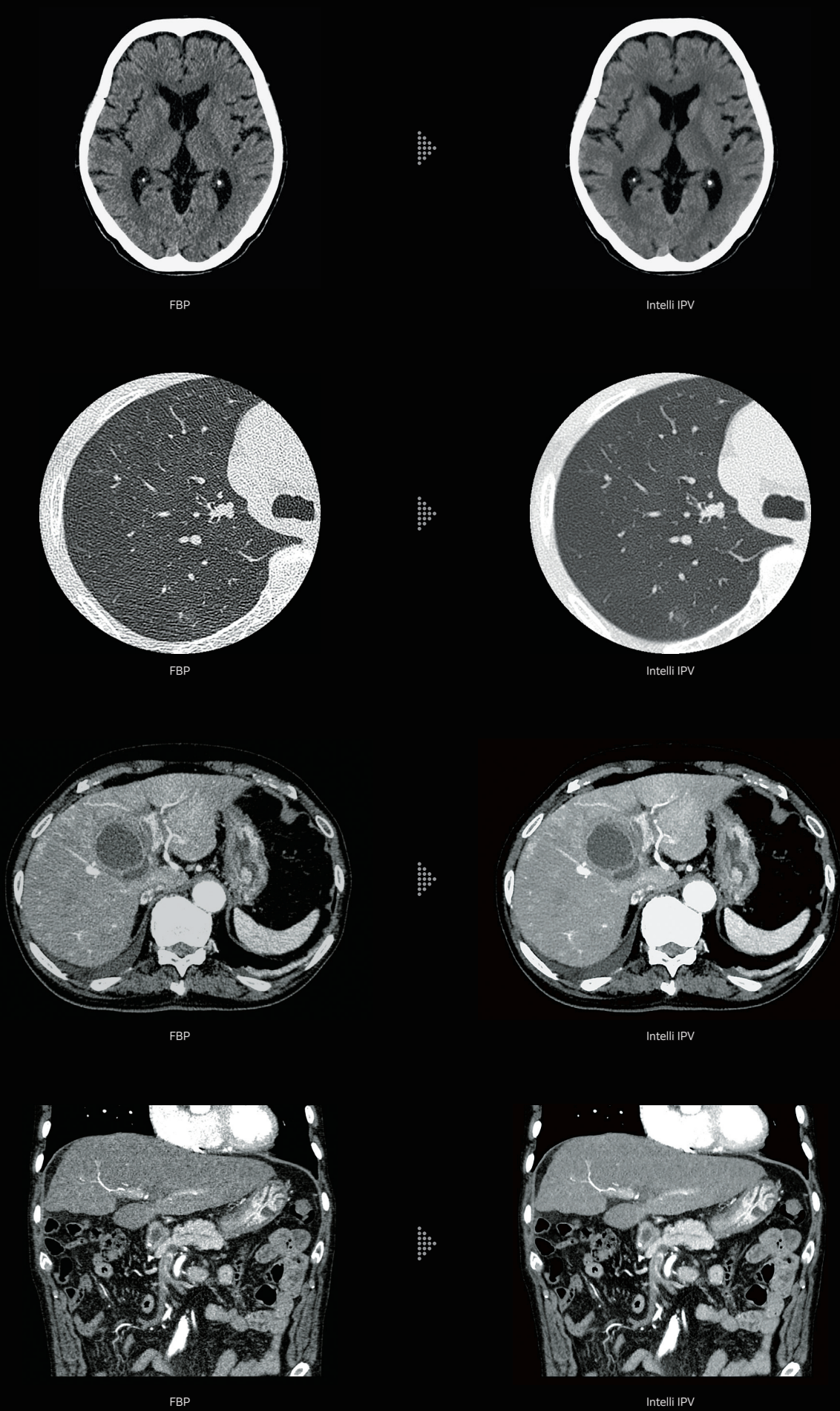
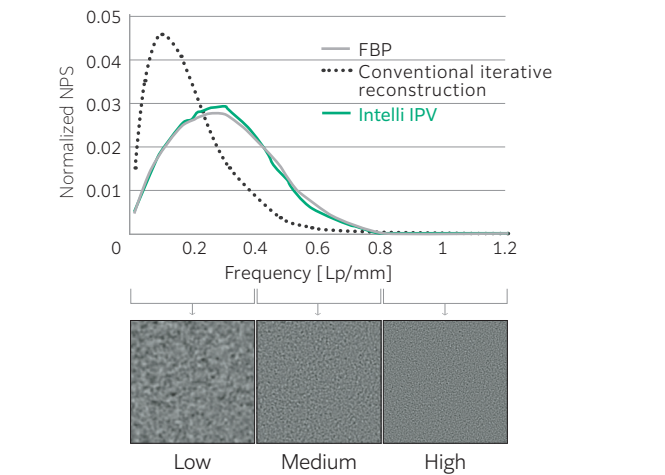
Visual Model

A technology to control image noise and image quality through iterative processing based on Statistical, Object, and Physical Models.



Maintains a texture close to FBP

The noise frequency characteristics that affect visibility are now as close as possible to those of FBP while adjusting the texture in equal proportions from high to low frequencies.



^{*1} Intelli IPV was developed using Machine Learning, an AI technology. The performance and accuracy of the system do not automatically change after use.
^{*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.

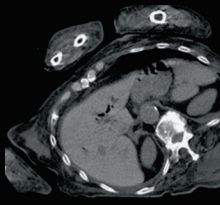
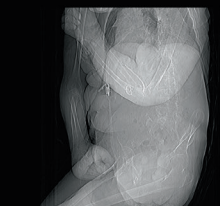
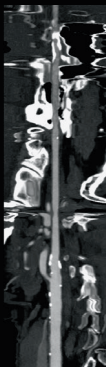
Image Gallery



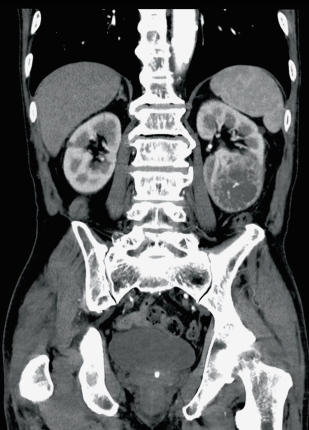
Brain tumor



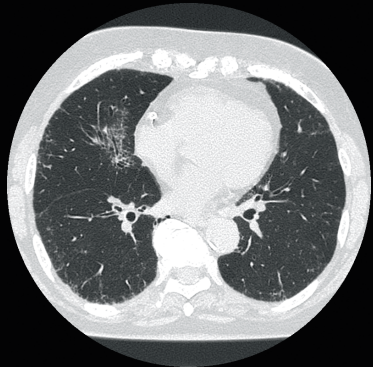
Common carotid artery stenosis



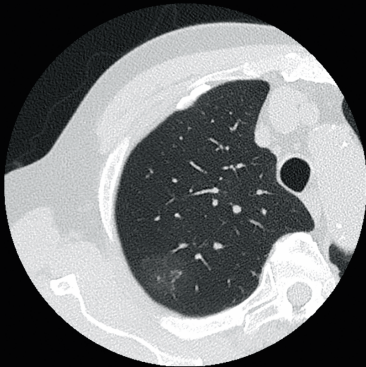
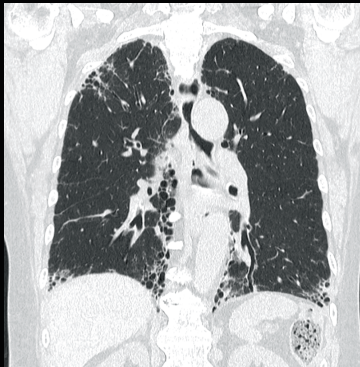
High speed imaging (180 mm/sec)



Renal cell carcinoma (80 kV)



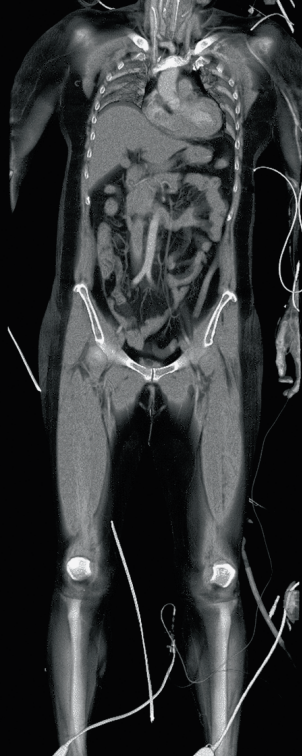
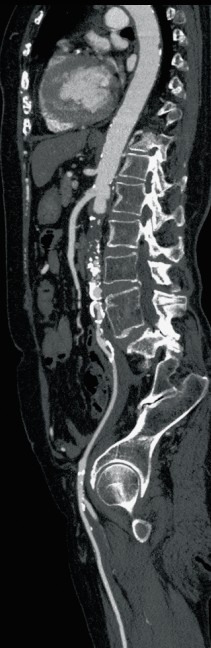
Interstitial pneumonia



Lung screening (CTDI vol: 2.0 mGy)



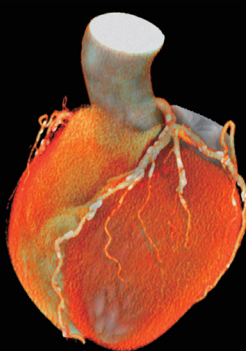
Abdominal aortic occlusion



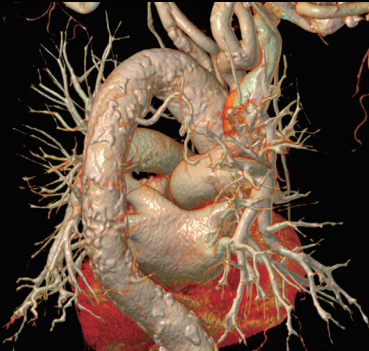
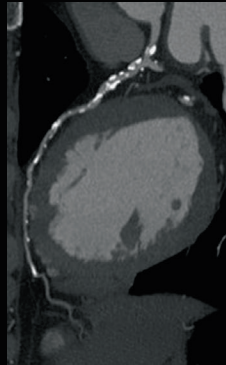
Intraoperative oxygen desaturation



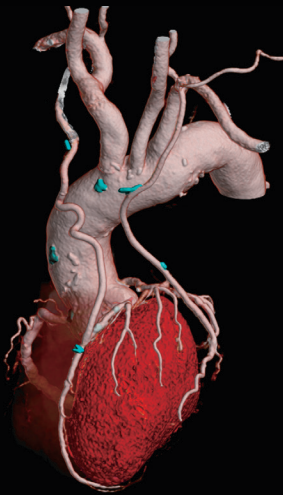
Left common iliac artery occlusion



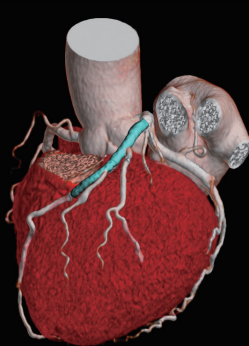
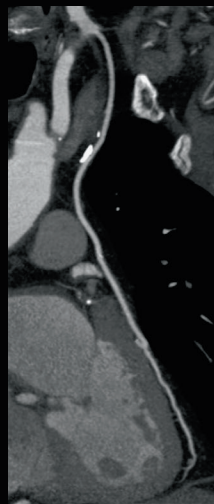
Coronary artery calcification



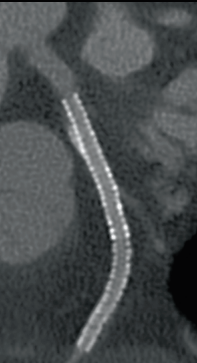
Non-tuberculous mycobacteria



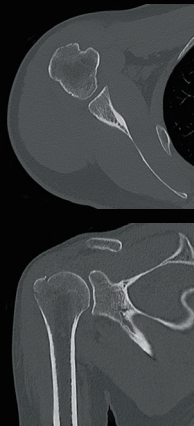
Follow-up after CABG



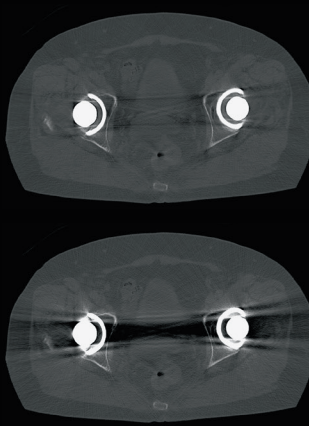
Follow-up after LAD stenting



Humeral greater tuberosity fracture



Tibial plateau fracture



Hip joint (HIMAR Plus)

Images other than axia images were processed by the 3D image analysis system SYNAPSE 3D.

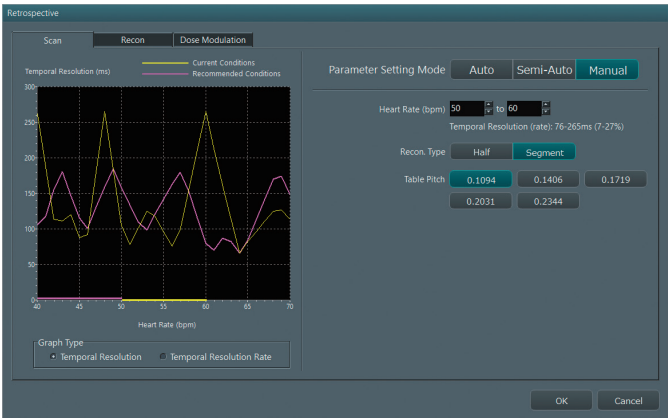
Cardiac Functions

Technology Supporting Routine Cardiac CT Examinations

CardioConductor

Automatic Calculation of Imaging and Image Reconstruction Conditions

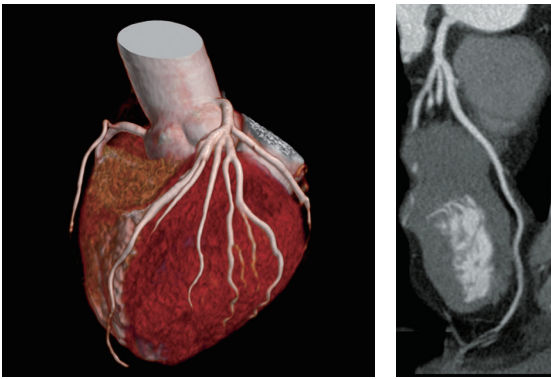
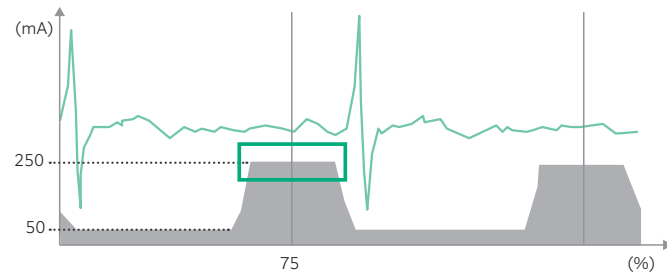
This is a function^{*1} that captures the heart rate range during breath-holding practice and automatically calculates the imaging conditions and image reconstruction conditions based on ECG waveform data. The operator can easily check whether the automatically calculated imaging conditions are appropriate or not with the displayed temporal resolution graph. The condition setting modes include auto, semi-auto, and manual, which can be selected according to the purpose.



IntelliEC Cardiac

Modulation Setting of X-ray Radiation Dose

This function allows for an adjustment of the X-ray radiation dose based on ECG information. It reduces radiation exposure in cardiac CT examinations by imaging cardiac phases other than the resting phase of the heart with a lower X-ray dose. Since the modulation of the tube current can be set up to two phases, it can also be set to match the resting phases of mid-diastole and end-systole.

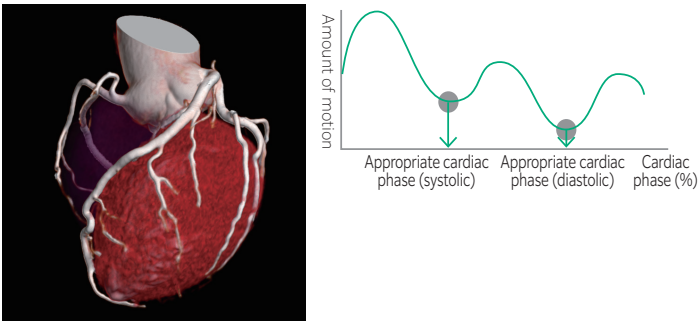


Reconstructed cardiac phase 75%
120kV, 0.35sec/rot, Beam Pitch 0.1719

CardioHarmony

Automatic Selection of a Cardiac Phase with Less Heart Motion

This function automatically selects a cardiac phase with the least heart motion after cardiac CT imaging. The amount of motion in each cardiac phase was calculated^{*2} based on the collected data and ECG information, and the cardiac phase with the least motion was selected as the appropriate reconstruction condition. CardioHarmony reduces the time required for finding the appropriate cardiac phase and image reconstruction necessary after cardiac CT imaging.



^{*1} Checking setting, and adjustment by the operator required depending on the conditions used.
^{*2} Calculated conditions require checking and adjustment by the operator.

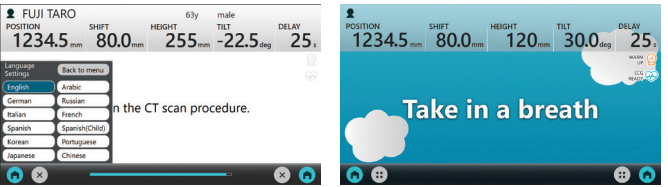
Other Functions

The Next Stage Leading to the Future for All

Touch Vision

15-Inch Touch Monitor

It supports 11 languages, which are also linked to auto voice, and displays examination guidance and navigation of the breath-hold timing. It also supports sign language, leading to a pleasant examination that meets various requirement.



Operation buttons are located at bottom corners of the monitor for easy access by the operator. Operations can be performed in a natural posture.

Eco mode

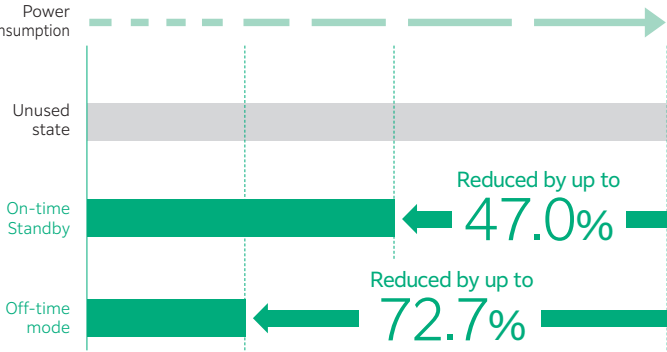
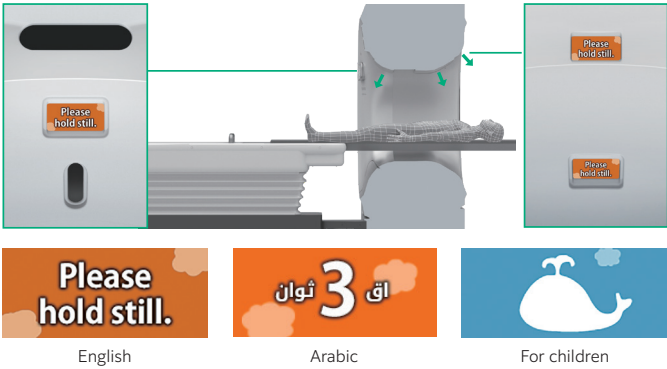
Reducing Power Consumption during Standby

The On-time Standby function reduces power consumption by up to 47.0% compared to the unused state by controlling units built into the gantry. In addition, the Off-time mode function, which disconnects power while maintaining detector characteristics, reduces standby power consumption by up to 72.7% compared to unused state.

Breath Guide

Navigating Breath-hold Timing

The indicator that informs the patient of the timing for holding the breath during the examination is mounted at three easy-to-see locations in the gantry. Aiming to reassure patients ranging from children to the elderly, the indicator informs the patient both by text display and auto voice.



Sentinel Customer Support

24 Hours a Day, 365 Days a Year Monitoring by IoT

Our sales, application, maintenance/service personnel, and Sentinel Customer Support, our remote maintenance program, will continue to monitor your CT systems even after installation. We will provide long-term support to maintain and improve the environment of CT systems by evolving functions on a daily basis, such as monitoring 24 hours a day, 365 days a year through IoT, while detecting signs of failure to prevent them from occurring in advance.

