

Operability
Stress-free Operation

Online help

The online help can be context linked with your current operation, for quick access to the answers.



applications

|                   |                         |                           |                         |                        |
|-------------------|-------------------------|---------------------------|-------------------------|------------------------|
| 2D Viewer         | Slicer                  | Cardiac Ablation Analysis | Colon Analysis          | Cystic Kidney Analysis |
| 3D Viewer         | 2D Fusion               | 4-Chamber Analysis        | ADC Viewer              | RECIST Tracker         |
| 4D Viewer         | Coronary Analysis CT    | Aortic Valve Analysis     | IVIM*                   | PERCIST Tracker        |
| Dynamic Data      | Cardiac Function CT     | NM Viewer                 | MR Flow Analysis        | Endoscope Simulator*   |
| Fusion            | Calcium Scoring         | Combination               | Liver Analysis CT       | Breast Analysis MR*    |
| 3D Compositor     | Cardiac Fusion          | Brain Perfusion CT        | Liver Analysis MR       | Surface                |
| 3D Comparison     | Coronary Analysis MR    | Brain Perfusion MR        | Lung Analysis/Air way   | 3D PDF                 |
| Vessel Extraction | Cardiac Function MR     | 4D Perfusion              | Lung Analysis Resection |                        |
| 2D Fat Analysis   | Delayed Enhancement MR* | Dental MPR                | Lung Analysis Scope     |                        |
| 3D Fat Analysis   | Cardiac Perfusion MR    | Sector MPR                | Kidney Analysis         |                        |

\*Not available for USA

Administration
The system Administration is easily undertaken by the site IT team, including user and application use management from one easily accessible web based utility.



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In some countries, regulatory approval may be required to import medical devices.
For the availability of these products, please contact your local sales representatives.



Contact

Global Support address : ff-its@fujifilm.com

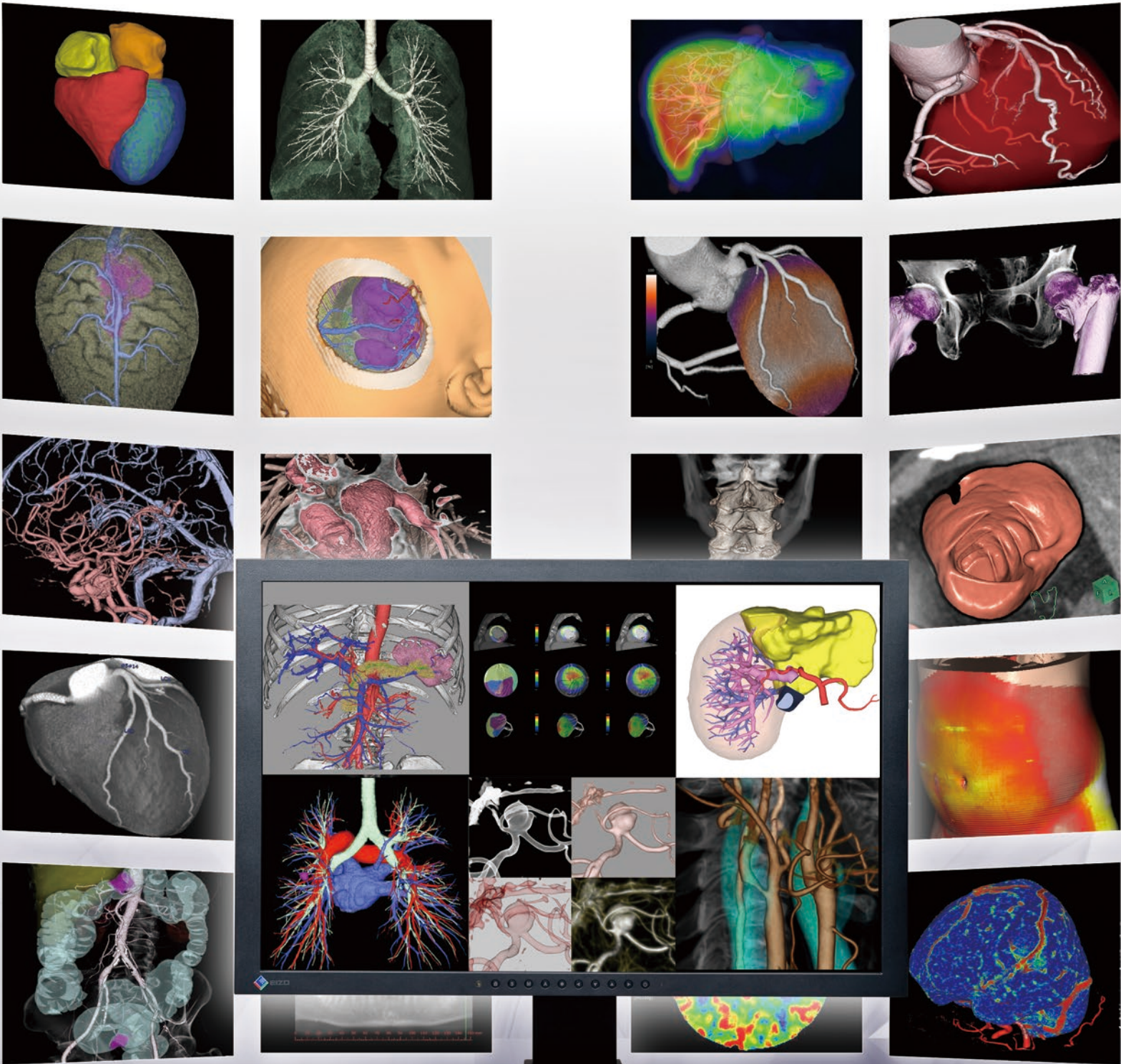
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Or visit us online and select your country: http://www.fujifilm.com/contact
Content of this brochure is based on the information available as of December 2015
This product is sold all over the world.

SYNAPSE 3D(8P) -1410-IB-500-1



SYNAPSE®
3D



Advanced SYNAPSE 3D quality for everyone

# Visualization

More quickly, more accurately and more widely

## Application

## Expanding SYNAPSE 3D Clinical analysis

Image recognition technology: One-click operation and improvement reproducibility  
Smart tracking, bone removal and automatic separation of arteries and veins are available.



### Smart tracking

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



One-click operation to extract the areas that touches bones



### 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 the FUJI FILM Algorithm technology.



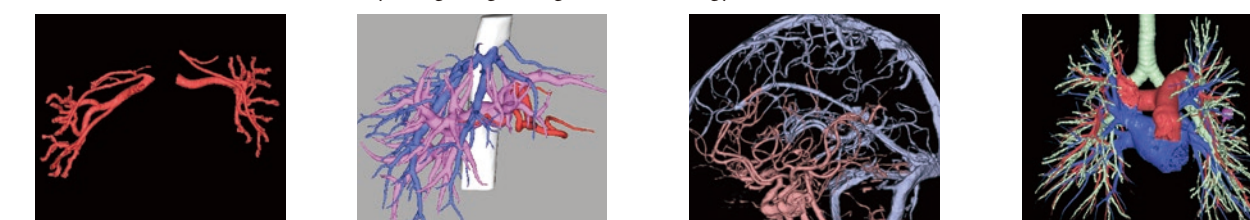
Skull removal

Lower extremity bones removal



### Vessels

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



Renal Artery

Portal Vein / Hepatic Vein / Hepatic Artery

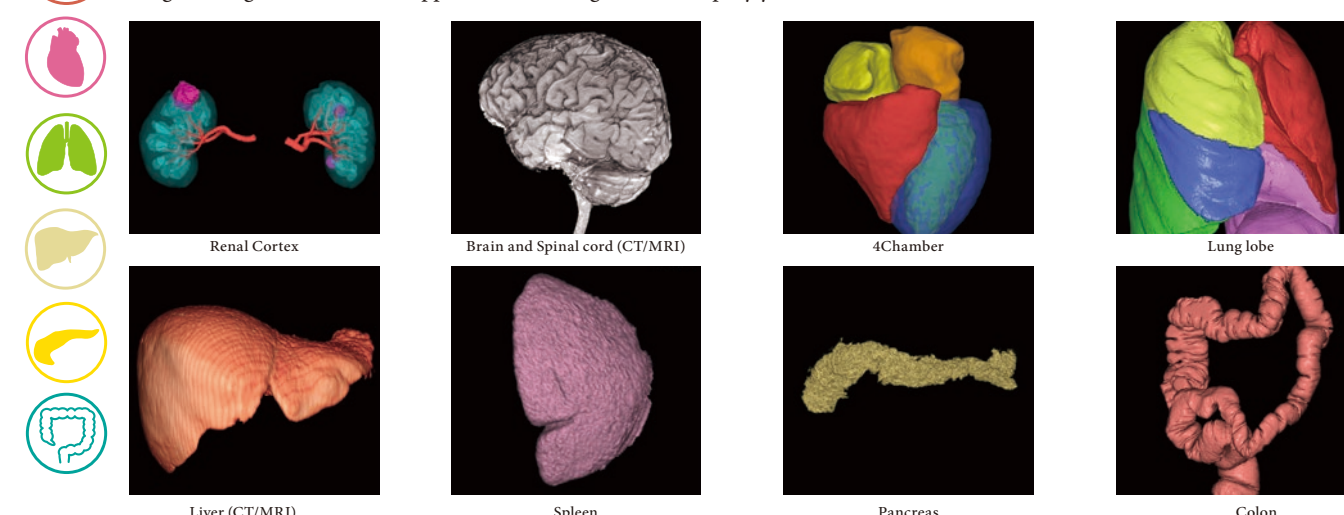
Cerebral Arteries and Vein separation

Abdominal Artery Portal Vein systems/ Bronchus, Pulmonary Artery and Vein



### Organs

Image Intelligence<sup>®</sup> makes it happen to extract organs and simplify your work.



Renal Cortex

Brain and Spinal cord (CT/MRI)

4Chamber

Lung lobe

Liver (CT/MRI)

Spleen

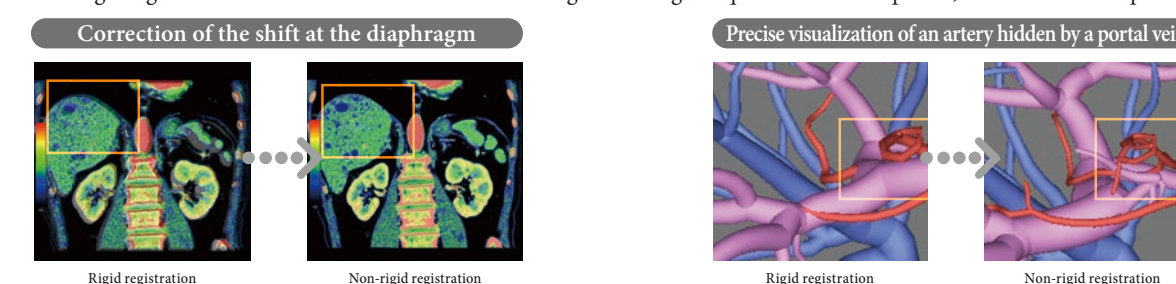
Pancreas

Colon



### Non-rigid registration

Non-rigid registration enables SYNAPSE 3D to move an organs in images acquired at different phases, and different time points to be corrected.



Rigid registration

Non-rigid registration

Rigid registration

Non-rigid registration

## [SYNAPSE 3D QUALITY]

Experience Advanced clinical workstation.

SYNAPSE 3D, uses unique image recognition technologies to automatically extract organs and vessels. The technology enables automatic extraction of lung, lung lobes the bronchus, liver, portal vein and hepatic vein extraction. This feature makes possible a large variety of 3D analysis, such as visualization of chronic respiratory disease and Liver and Kidney preoperative simulations. In addition, with our unique image compression and transmission technologies, the high-speed communication in the thin client environment provides ease of access to 3D analysis from anywhere in the facility with stress free operation.



Visualization



Smooth workflow



Operability

### High quality images

As a pioneer, within the medical imaging field we have adapted image recognition technologies, to create our unique "Image Intelligence". This enables quicker and more accurate image recognition.



Applies Fujifilm image analyze technique which used on FUJIFILM digital camera

### More efficiency for team medical care

Being able to save the analyzed work within a common accessible platform of SYNAPSE 3D, it is possible to share the work easily with other users. This feature enables a smoother workflow and cooperation with other clinicians.

### Stress-free operation

SYNAPSE 3D provides seamless high quality images with easy-to-use editing tools. The interface layout can be changed from a simple mode to a professional mode, according to the user's purpose and level of knowledge.

# Visualization

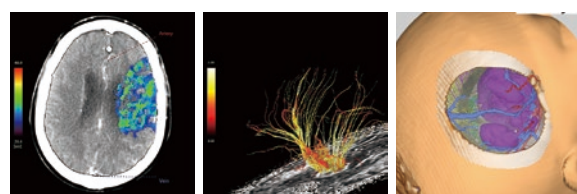
Quicker, more Accurately and more Information

## Application

Expanding SYNAPSE 3D Clinical analysis

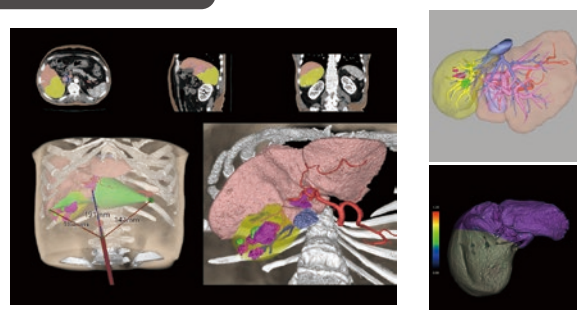
To reduce time working on the 3D workstations, we continue to expand our image recognition technology to variety of areas. Such as, oncology PET /SPECT, the respiratory system with automatic extraction of the bronchus and separation of lung lobes. Liver analysis (CT) automatically extracts the portal and hepatic vein, areas which can remarkably reduce complicated processes and speed up analysis.

## Brain



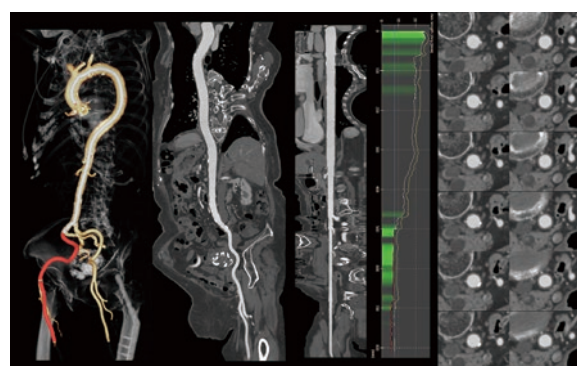
**3D/4D Brain Perfusion/ Craniotomy/Tensor Analysis**  
Craniotomy/Tensor Analysis makes it possible to pre-operative plan surgeries.

## Liver



**Liver Analysis (CT)/Liver Analysis (MRI)/Endoscope Simulator**  
Liver Analysis (CT) allows users to make Volumetric and pre-operative simulations and allows the user to move it into an Endoscope Simulator which is able to plan laparoscopic surgery.

## Vessels



**General CPR**  
General CPR can perform aortic and general stent simulations and measurements allowing the clinician to make informed choices about what device to use.



Brain



Respiratory



Liver



Orthopedic



Cardiology



Blood vessel



Pancreas



Renal



Colon



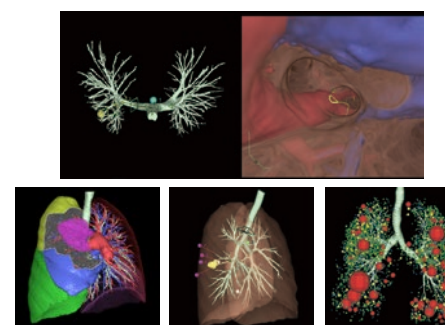
RECIST/  
PERCIST



TxMap



Respiratory

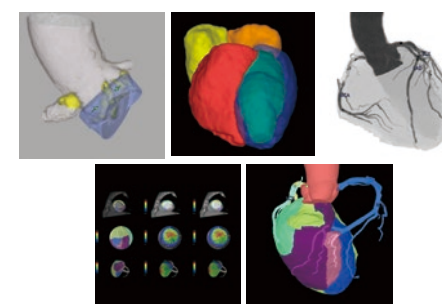


**Lung Analysis Resection/Lung Analysis Scope/  
Lung Analysis Airway**

These can be helpful for identifying and measuring lung lobe volume, Lung resection preoperative simulation (especially VATS operation) and Pre-check Bronchoscope procedures.



Cardiology

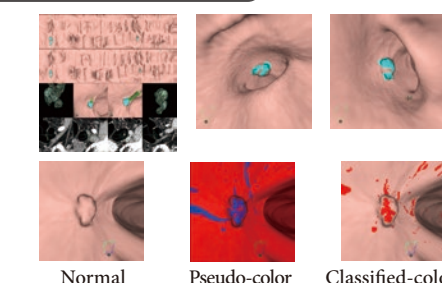


**Aortic Valve Analysis/4Chamber/Coronary Analysis (CT/MRI)/  
Cardiac Fusion/MMAR (Myocardial Mass at Risk)**

These applications allow users to observe Cardiac Functionality, Coronary vessels and myocardial perfusion territory. Planning TAVI (TAVR) measurements, it is possible to simulate valve insertion and catheter approach.



Colon

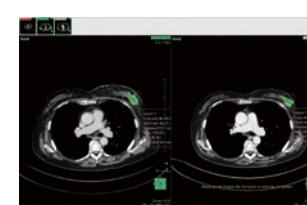


**Colon Analysis**

Allows the users to observe Colonic CT scans, incorporating Filet view, a Virtual endoscope view, Digital cleansing, Torous enhancement and Depth MIP functionality. Enhancing the users experience and aiding fast throughput of Virtual Colonic CT's in a busy facility.



Oncology

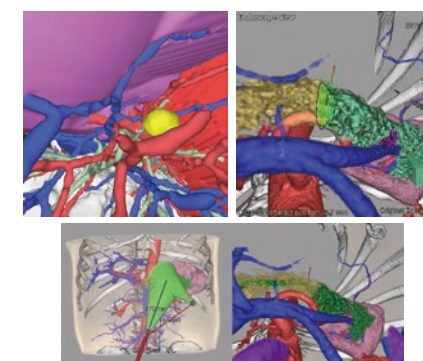


**RECIST/PERCIST**

It is possible to perform quantitative evaluation based on the RECIST & WHO international criteria, utilizing the image recognition technology's to speed up and aid analysis.



Laparoscopic Surgery

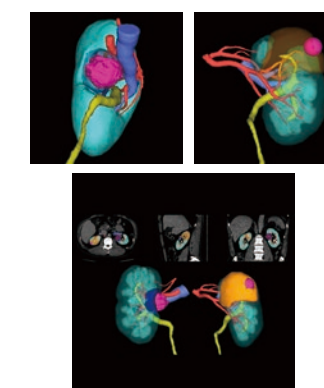


**Endoscope Simulator**

This application makes it possible to plan accurate Port placing for enhanced visualization during laparoscopic surgery for Renal, Colon, Liver and Lung interventions.



Renal

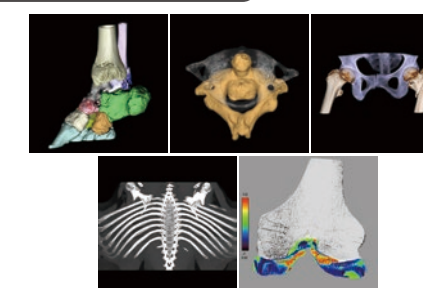


**Kidney Analysis/Cystic Kidney Analysis**

Enable the users to plan Renal Cortex Volumetry and pre-operative planning such as artery territory extraction and enucleation.



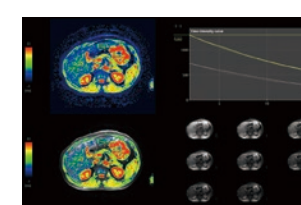
Orthopedic



**Tx Map/3D Viewer Bone separation/General CPR/Slicer**  
Tx Map can visualize 3D map Bone and Tx map surface, and Bone separation functionality can help to observe joints easily.



Tx Map



**Tx Map**

This application analyses the iron content of Liver and water content of Cartilage within the Joint spaces.

# Smooth workflow

More efficient for the medical care team:

Using a common platform and a built in snapshot capability, it is possible to share the information easily with other users.  
This feature enables smooth workflow to aid greater team cooperation between users both Radiology and other Clinical specialisms.

