SHIMADZU
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MSU-RB-0030A

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Digital Angiography System

Trinias series

Introduction of Advance Pack3

Contents of Advance Pack 3

S/W version up

This package updates your system to the latest S / W version.
Newly added functions support your interventional treatment further effectively.

<New features>

- Improvement of image quality in fluoroscopy and DA for cardiology

<New features which requires additional option "Upgrade software for SCORE 3D-WS" >

- Improvement of image quality of SCORE CT/CT-HR
- New functions on SCORE 3D Workstation

<Included in Advanced Pack 2>

- Dose Report as DICOM image
- Vessel Power added on DSA Tool

<Included in Advanced Pack 1>

- Full size display for SCORE StentView
- Flex-APS (Active Pixel Shift)
- Newly designed Graphic User Interface and Icon
- Dose Report as DICOM image
- Vessel Power added on DSA Tool

New features

◆ Improvement of image quality in fluoroscopy and DA for cardiology

<Fluoroscopy for Cardiology>

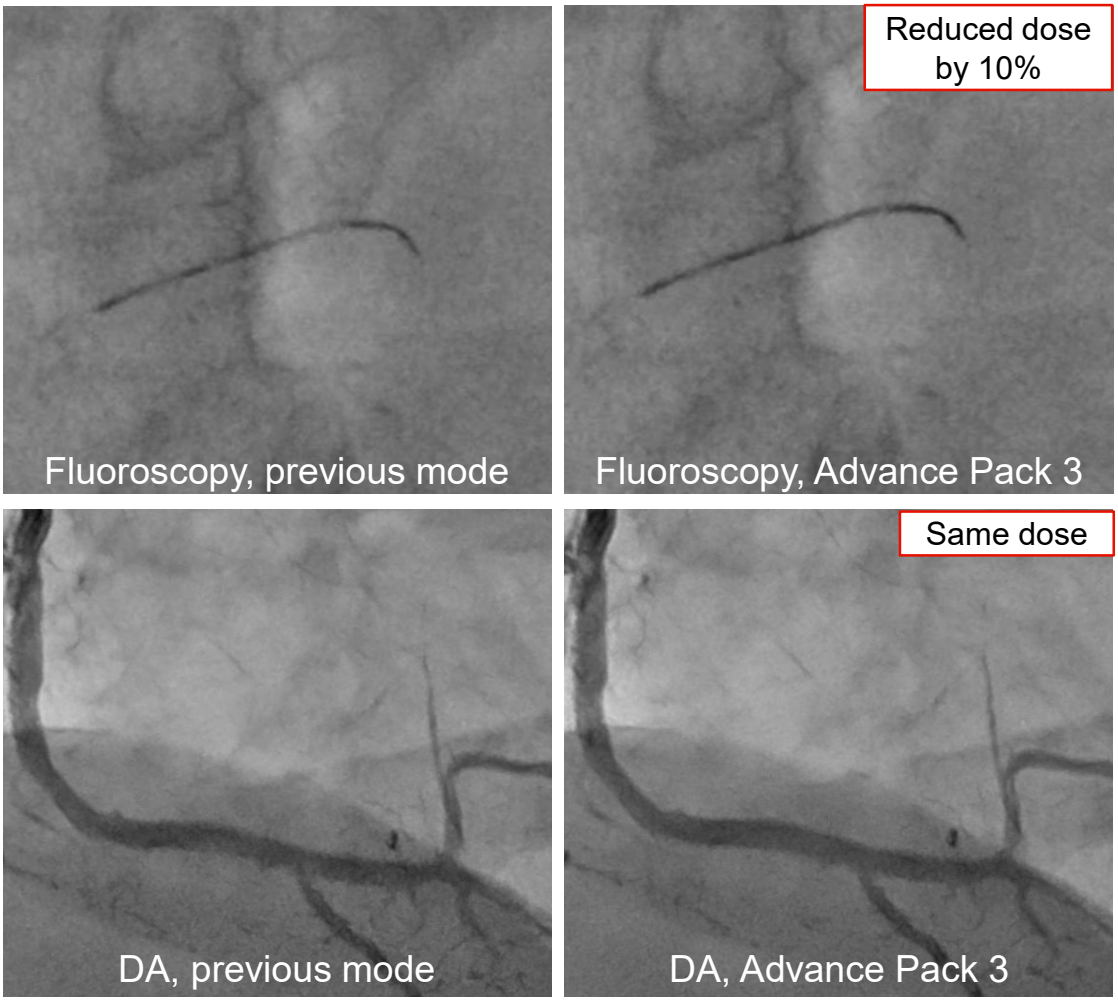
- Motion blur is reduced by shortening the pulse width by 30%
- Dose ratios of “Normal” and “Low” fluoroscopy mode are reduced by 10%.
- In spite of dose reduction, “Normal” fluoroscopy mode keeps same CNR, and “Low” fluoroscopy mode improved its CNR by 10%.
- As a result, visibility of tiny devices is improved in fluoroscopy. (e.g. empty 4Fr catheter, tip of fast-moving guidewire)

<DA for Cardiology>

- Dose ratio is as same as that of the previous version.
- Noise in the background is reduced and visibility of vessels are improved by modified parameters of image processing.

<Other modes>

- There are no changes in DSA, SCORE RSM and fluoroscopy for neurology, oncology and EVT.



New features

◆ SCORE 3D Workstation

< Improvement of image quality of SCORE CT>

- Visibility of body tissue is improved by better flatness in SCORE CT for oncology.
- Visibility of stent strut is improved in SCORE CT-HR for neurology.

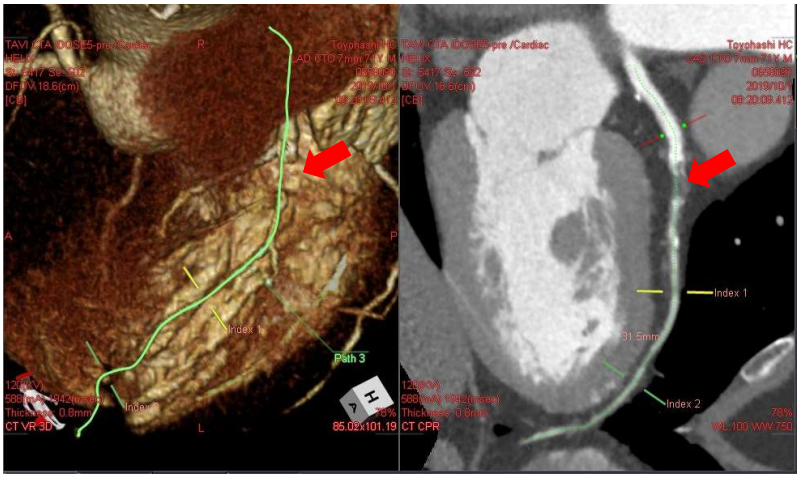
<New functions>

- Rendering speed becomes faster during image operation with volume rendering.
- It can be indicated if displayed angle in 3D data is available or not by the actual C-arm.

Available

Not available

- Vessel tracking can work even through CTO region.

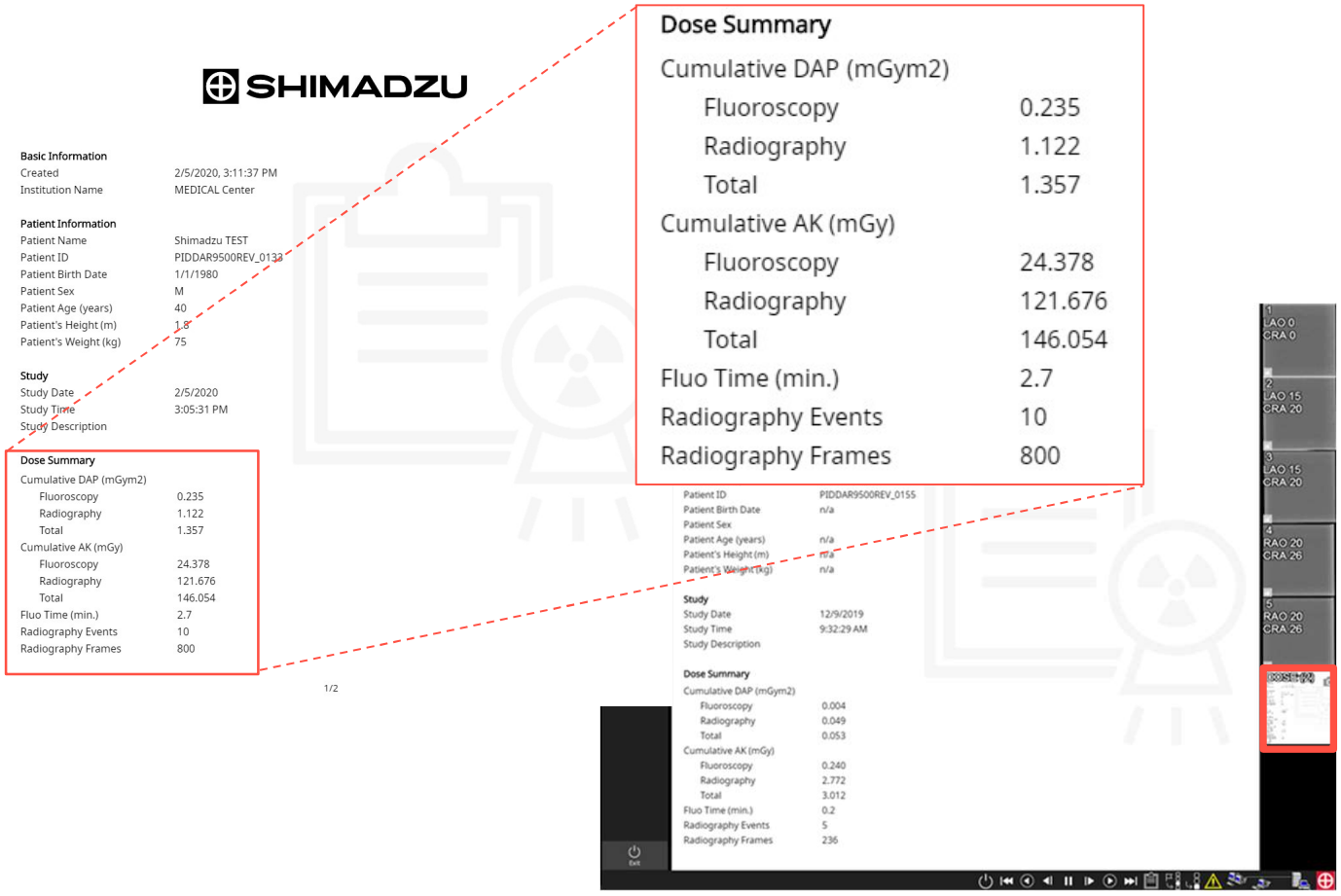


- Working angle can be transferred during 3D Roadmap
- Q/R of MR / Enhanced MR / Enhanced CT is available.
- Functions can be run by the shortcut keys.
- 2D/3D registration is available with MPR layout.
- Patient information can be hidden.

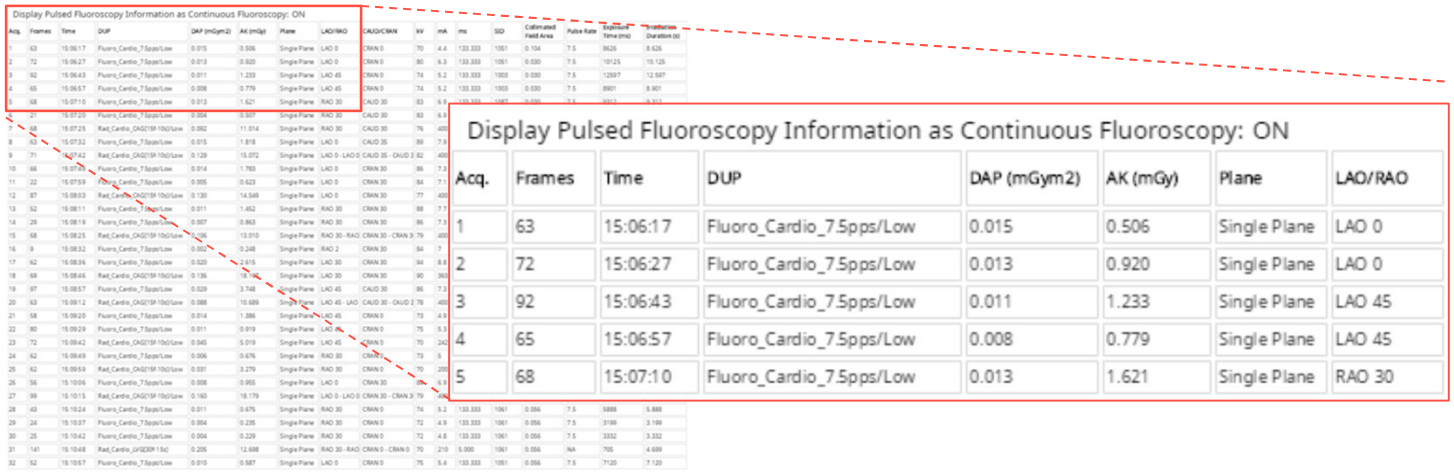
Features taken over from Advance Pack 2

◆ Dose Report as DICOM image

- After the study, a dose report image is automatically created, which are saved as DICOM images and allowing output to network servers.



Reference monitor

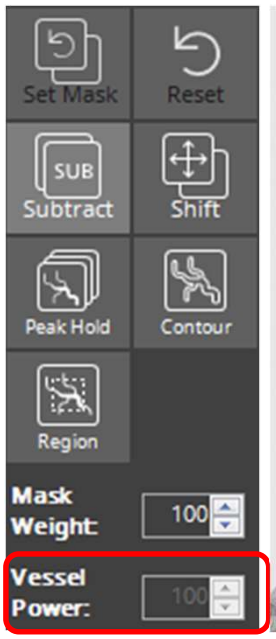


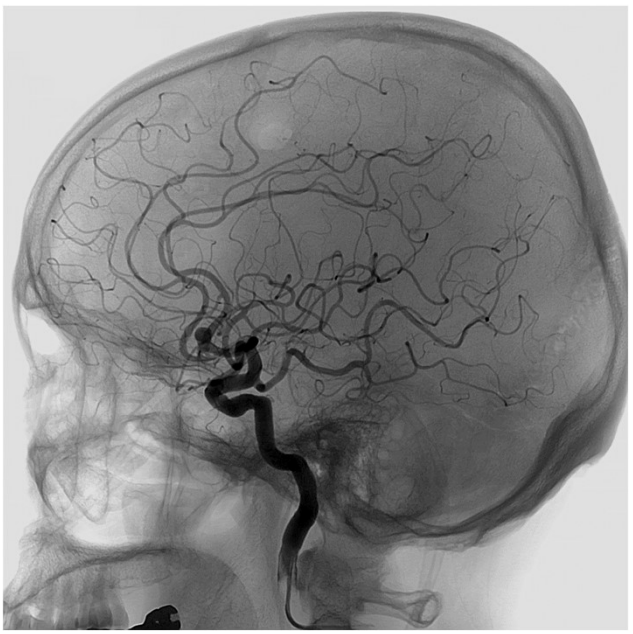
If you have purchased Advance Pack 2, features in this page are already available on your system.

Features taken over from Advance Pack 2

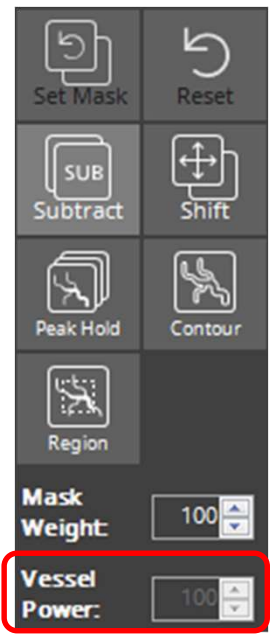
◆ Vessel Power added on DSA Tool

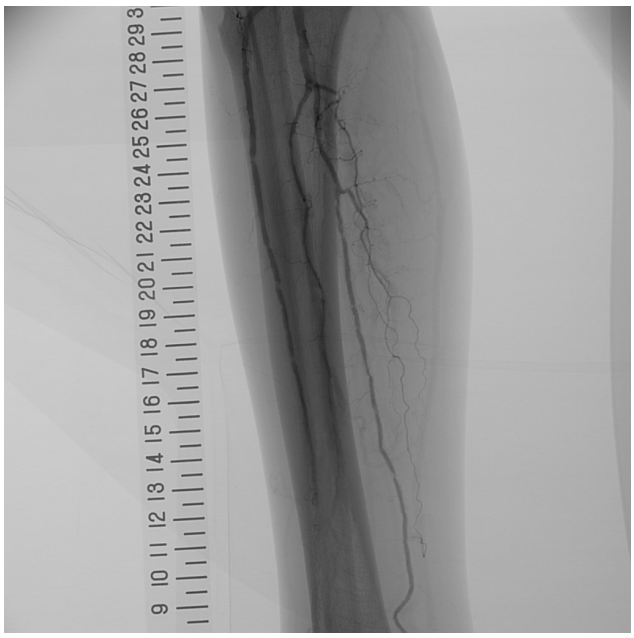
- The contrast of blood vessel image can be adjusted by using the DSA tool.（0～1000）

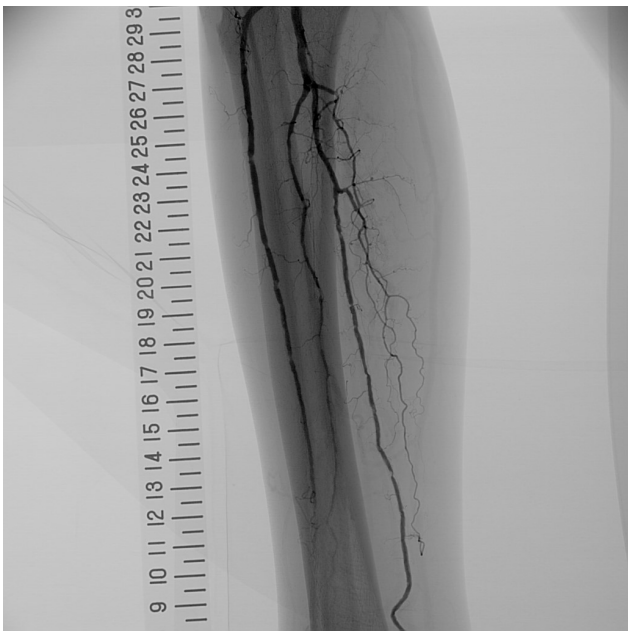




Original DA　　Vessel Power Stronger







If you have purchased Advance Pack 2, features in this page are already available on your system.

Features taken over from Advance Pack 2

◆ Change of performing physician setting in the middle of a study

- Function of SMART Touch and Function keys are changed regarding to physician setting.

◆ Direct entry of age is available at the time of study information entry

- 0 - 107 years old can be entered.

◆ Display of gender and age during study becomes available

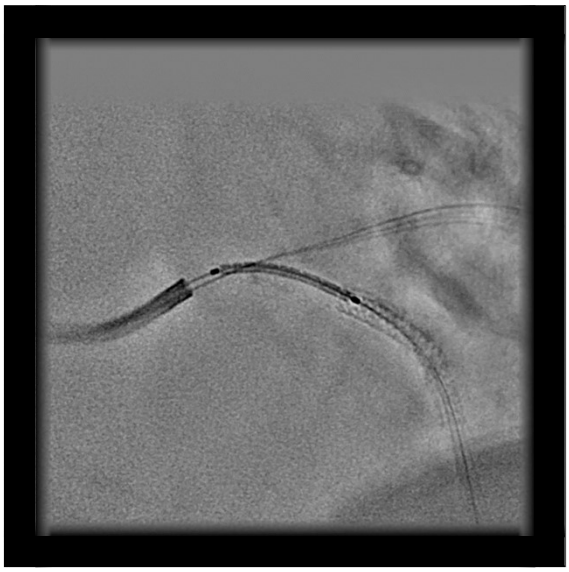
◆ Region Rendering Quality of Contour Enhancement becomes available for each physician setting

If you have purchased Advance Pack 2, features in this page are already available on your system.

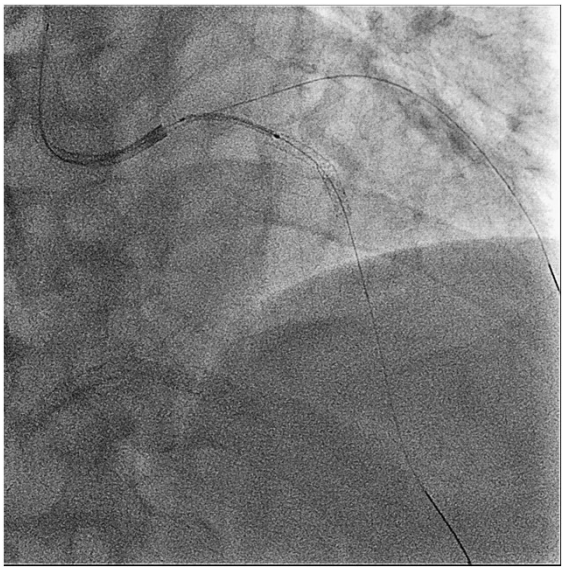
Features taken over from Advance Pack 1

◆ Full size display for SCORE StentView*

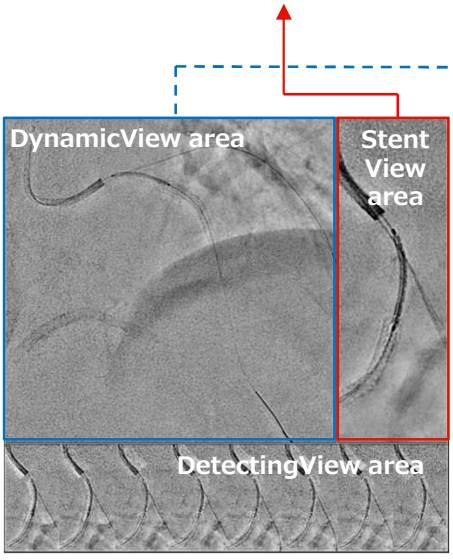
- Maintains the clinical orientation of the stent and displays the StentView area in full screen。
- During SCORE StentView, the original image (the entire image to which X-rays have been exposed) is displayed on the reference monitor.



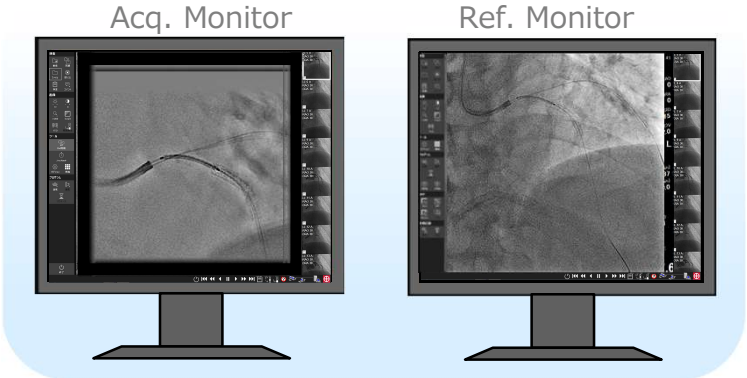
Full size display of StentView



Original acquiring image (Ref)



Conventional Display
Split type



Display during SCORE StentView

Acquisition Monitor : Full size display of StentView
Reference Monitor : Original acquiring image

If you have purchased Advance Pack 1 or 2, features in this page are already available on your system.

Features taken over from Advance Pack 1

◆ Flex-APS (Active Pixel Shift)

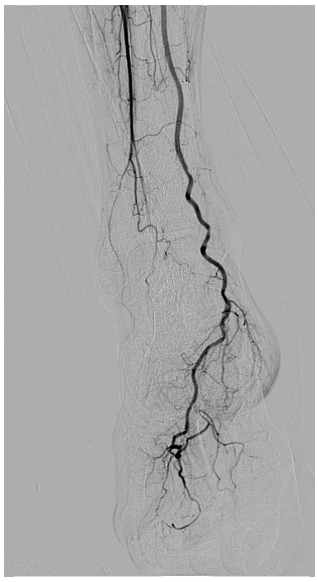
- Automatically adjusts misregistration between LIVE and MASK in DSA imaging. For the head and lower limb area during DSA imaging.

- Since adjustment is performed for each pixel, it is possible to respond to movement in the twist direction.

Conventional method

Flex-APS

Conventional method



Flex-APS

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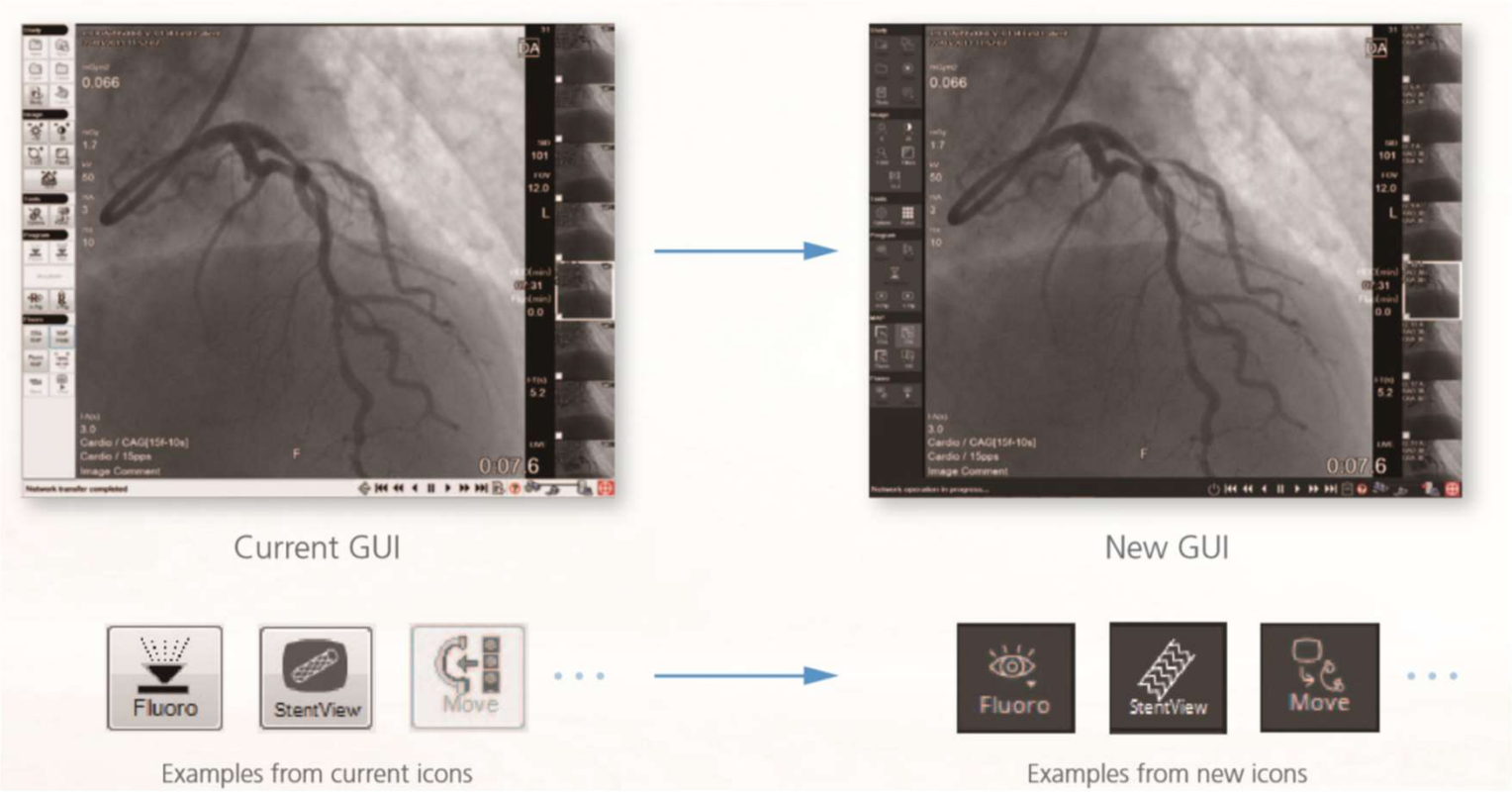
Features taken over from Advance Pack 1

◆ Newly designed Graphic User Interface

- The new GUI with black and gray design provides a stress-free, smooth operating environment. Also, the intuitive icons are adopted thanks to opinions by experts.



◆ [Fluoro Alarm] stop supported by Shortcut Key

- It becomes possible to register [Fluoro Alarm] stop by setting IVR NEO and keyboard Shortcuts. Only Shimadzu or specified service representatives can change the settings. 。

◆ Checkbox for H, V Flip in [New Study] window

- Newly added checkbox is useful, when you start the study to set H, V Flips depending on patient positions.

[New Study] window in the bottom

If you have purchased Advance Pack 1 or 2, features in this page are already available on your system.