SHIMADZU
Excellence in Science

Premium Option

Touch Focus

New Innovative Feature for OPESCOPE ACTENO

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The "Touch Focus" is our brand-new innovative technology for OPESCOPE ACTENO to optimize the image brightness focused to your ROI (Region Of Interest) which can be located not always at center spot but can be located at anywhere in the FOV (Field Of View), just by touching your ROI on the displayed image on the C-arm unit at real-time during fluoroscopy. This unique feature will be a great help to provide proper clinical images without being disturbed by the halation or artifacts caused by the metal surgical devices which are often used in the surgery operations.

option

Introduction : standard feature

OPESCOPE ACTENO is equipped with a standard feature called IBS (Image Brightness Stabilizer) to adjust the fluoroscopic image brightness automatically at real-time. This standard IBS is designed to optimize the brightness to the center spot in the FOV (as shown in the right figure), assuming that the C-arm would be positioned for ROI to be at / around the center of FOV usually.

However, in some cases, the ROI can somehow get out of the center spot of FOV during the actual operations. Or, the metal surgery device or the column of operation table could get into the FOV center spot and that disturbs the image adjustment of IBS to give you proper images.

The “Touch Focus” is the advanced solution for those difficulties in the actual clinical scenes.

Touch Focus : Innovation for Clinical Value

The innovative "Touch Focus" feature is a premium option to provide the following clinical value in the actual surgeries.

When the ROI gets out of the center of FOV, or whenever you need proper images focused to your ROI without being disturbed by the halation or metal artifact by the surgery devices etc., the "Touch Focus" will help you to provide the proper image optimization focused to your ROI which you touched in real time.

»» Touch Focus – Free mode

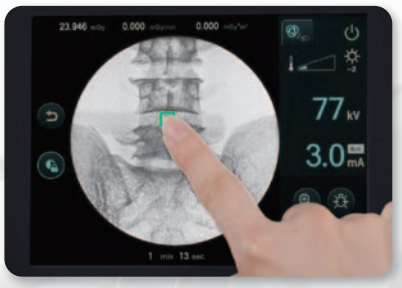
This mode is to provide best image brightness for any Free point which you touched, by optimizing (changing) kV.

Clinical Benefits:

- Even if the ROI is not located at the center of FOV, you can easily and immediately obtain the best brightness image to your ROI just by your one touch to your ROI, wherever the ROI is located.
- Even if the patient body was moved unintentionally, or even if the patient position was changed intentionally from frontal to lateral for the wrist or ankle for example, you can keep on seeing the optimized image to the touched focus area/ROI.
- Metal surgery devices are often used in orthopedics. Even if a metal surgery device or an operation table frame comes into the FOV, one touch to your ROI will enable you to keep on seeing the optimized image to the ROI without being disturbed by these metal devices.

»» Touch Focus – Lock mode

This mode is to optimize the brightness for any touched area (ROI), and then keep (Lock) that best brightness to that ROI by holding the imaging parameters until your release.



Touch your target point to optimize

No disturbance by a metal device

Clinical Benefits:

- Metal surgery devices are often used in orthopedics. Even if a metal device comes into the selected focused area, you can keep on seeing the optimized image to the ROI without being disturbed by the metal device.
(The standard IBS image adjustment can be disturbed, when the metal comes into the center of FOV.)

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Remarks:

- Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- The appearances and specifications are subject to change for reasons of improvement without notice.
- Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
- Before operating this system, you should first thoroughly review the Instruction Manual.

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