

Press Release

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Opescope Acteno

Mobile C-arm system combines outstanding ease of use with excellent image quality

Opescope Acteno provides advanced imaging technologies /

Exclusively from Shimadzu: quicker height adjustment of vertical C-arm movement /

New valuable functions added

Shimadzu, a worldwide leading manufacturer of diagnostic imaging equipment, has added new valuable features to its mobile C-arm system Opescope Acteno. With a digital imaging unit, real-time DSA, RSM technology, Touch Focus-, IBS- and DICOMizer-function, the surgical C-arm meets the requirements of operating and emergency rooms – with easy positioning and optimal performance. Featuring these new functions, Opescope Acteno is shown at the 2016 ECR congress in Vienna, Austria.

Opescope Acteno combines brilliant imaging quality with simple operability. The counter-balanced C-arm can be positioned easily and precisely. The exclusive manual vertical C-arm movements enable much quicker height adjustments in routine operations.

A quick overview on the new functions:

- **Image Brightness Stabilizer (IBS)**

Adjusts the fluoroscopic image brightness automatically at real-time. This standard IBS is designed to optimize the brightness to the FOV center spot.

- **DICOMizer function**

The Opescope Acteno provides new opportunities to export DICOM MWM, MPPS, Print, RDSR function to enhance the clinical workflow.

Additional options are:

- **Digital Imaging Unit**

It enables spot radiography and high-speed serial radiography using our high resolution digital technologies. After acquisition, image adjustments and annotations data are storable on the embedded HDD. Without compromising image quality, up to 30,000 high quality images.

- **Real-time DSA**

The capability of high-speed, real-time DSA (Digital Subtraction Angiography) at max. 7.5 fps can be expanded for vascular examinations or dialysis shunt radiography.

- **RSM technology minimizes motion artifacts in DSA**

Adding Shimadzu's unique RSM filtering process to DSA images, it eliminates motion artifacts which can easily happen in the patients under anesthesia who cannot control their breathing or the patients who easily move during shut imaging. The broadens the potential scope of application for using DSA.

- **Touch Focus**

Optimize the image brightness focused to the ROI which is located at any position in the FOV, just by touching the ROI on the display at any time during fluoroscopy.

Large C-Arm but compact body

The enlarged 78 cm wide C-arm facilitates approaches to the patient and reduces the risk of contact with the operating table. Nevertheless, Acteno is very compact – its small system width of only 80 cm facilitates moving through narrow doors as well as manoeuvring in smaller and busy operating rooms with large numbers of surgical devices and staff. The internal cables on the C-arm ensure easy cleaning – a significant hygienic benefit.

The All-Free Button at the image intensifier is a unique feature to release the electro-mechanical arrest on the C-arm. The operator can conveniently position the C-arm without the need to go back to the cart unit.

Imaging and High-Performance Technology

The 1M high-resolution CCD camera combined with the advanced imaging technologies of Shimadzu provides outstanding image quality. X-ray conditions can be easily set via a large touchscreen on the C-arm unit, where the operator can also choose between simple mode and expert mode. Optionally, the screen can also display the fluoroscopic images.

Dose Management

Acteno incorporates special functions to ensure high image quality while reducing X-ray exposure, even during long surgical procedures. Pulsed Fluoroscopy, Multi Beam Hardening filters, and Virtual Collimation on the LIH (Last Image Hold) are examples of these functions.

In addition, the area dose product is displayed in real-time on the touchscreen and the screen on the monitor cart.



Figure 1: Opescope Acteno – surgical C-arm system



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