

Technology Backgrounder

Interventional X-ray

Philips Veradius Unity Mobile C-arm System

A significant increase in the number and complexity of minimally invasive vascular, cardiac and orthopedic repairs today requires that your surgical teams work together efficiently and quickly. Yet, miscommunication between physicians and mobile C-arm operators can slow the process, lead to more scout images, and require more X-ray dose to obtain the proper image. Establishing good communication between physician, operator, and C-arm, can improve workflow and increase throughput.

The user interface in our new Veradius Unity has been revolutionized to be as simple to use as your smartphone or tablet. With the touch of your finger you can choose an exam type, adjust dose settings and collimate very quickly and easily. Our unique integrated ClearGuide feature in combination with color coding on the C-arm speeds up positioning. This can make procedures that require frequent position changes more pleasant for staff. ClearGuide provides a uniform set of reference numbers for the operator and physician to use during positioning.

And with the Position Memory option, you can store a previous position and recall it to speed up re-positioning. We combined these ergonomic features with exceptional image quality, a quick outlining tool, and efficient radiation dose management.

We validated these improvements through independent user testing*, where participants experienced:

- Improved workflow
 - 94% first time correct positions using the system's Position Memory (vs 49% without)
 - 45% less miscommunication between physicians and operators
 - 70% less frustration for operators
 - 80% preference by users of the intuitive touchscreen interface
- X-ray dose management
 - Fewer scout images were required to find the correct C-arm position – 24% less for initial positioning and 55% less for repositioning
- Time savings
 - More than 20% reduction in time needed to position the system

**Results obtained during user tests performed by an independent company in a simulated environment. The tests involved 30 USA based clinicians (15 physicians teamed up with 15 nurses or X-ray technicians), who performed simulated procedures in a simulated OR environment. None of them had worked with a Philips C-arm or with each other before.*

For more information, additional materials and images, go to www.philips.com/RSNA and click on the “News Center” tab.