
FDA Clearance Awarded to Siemens' Cios Alpha Mobile C-arm



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- FDA Clears Siemens' Cios Alpha Mobile C-arm with Flat-Panel Detector
 - Combination of detector and 25 kW power output yield high-resolution, high-contrast images
 - Field of view up to 25% larger than conventional C-arms

Siemens Healthcare has announced that the Food and Drug Administration (FDA) has cleared the Cios Alpha, a dynamic new mobile C-arm system with flat-panel detector that boasts a power output of 25 kilowatts (kW) and has a field of view (FoV) up to 25 percent larger than conventional C-arms.

A bold new vision of mobile C-arm technology, the Cios Alpha offers a host of features designed to boost the surgical team's confidence and operational workflow. They include a user-friendly touch screen interface, a unique position storage feature, and an active cooling system that helps to ensure exceptional image quality during prolonged interventions.

"With imaging technology that helps overcome disruption and reduce inefficiency in the OR, the new Cios Alpha mobile C-arm will aid surgical teams in maximising productivity and fostering a higher quality of patient care across multiple disciplines," said Laurie Fisher, VP, X-Ray Products, Siemens Healthcare. "Siemens has engineered the Cios Alpha to deliver the highest-quality images at the lowest possible dose during surgery as well as perform seamlessly during even prolonged operations. This new C-arm system is ideal for a wide range of surgical procedures, including vascular, orthopedic, and urological."

The Cios Alpha's 30 x 30 cm (12" x 12") detector, combined with its potent 25 kW power output, provide high-resolution, high-contrast images and can cover the finest structures – a particularly beneficial feature in minimally invasive surgery, which involves frequent use of fine catheters and instruments.

Due to the space-saving, compact design of its flat-panel detector, the Cios Alpha also provides doctors and medical personnel with additional space and thus improved patient access over traditional image intensifiers.

At 25 kW, the Cios Alpha is one of the most powerful mobile C-arm systems available – which is particularly beneficial when operating on obese patients who require more system power to obtain superior image quality. The Cios Alpha's active cooling system helps ensure against overheating to maintain consistently high image quality even during prolonged interventions.

Because image intensifiers and flat-panel detectors for conventional mobile C-arm systems provide the surgeon with a round FoV when rotating the image, physicians can lose important image information. With its new radiographic collimators, the Cios Alpha with flat-panel detector has an FoV that is up to 25 percent larger than current mobile C-arms. When the surgeon rotates the square image, the system's new collimators – which shield the patient and surgeon from unnecessary radiation – follow automatically, tracking image rotation to help ensure that the monitors always display the maximum FoV.

The Cios Alpha C-arm also has a new touch screen interface that offers surgeons increased safety and confidence in the OR. The system can be operated from three identical touch screens – on the C-arm, the mobile workstation, and the table-side control. Using these touch screens, the surgeon has full control of the equipment at any time during the interventions.

Operating staff members who often lack a full view on the system's monitors can use a small image preview integrated into the touch screens that enables easy storage and retrieval of C-arm positions, eliminating manual repositioning. And the Cios Alpha's vessel overlay software provides the surgeon with a better overview during vascular procedures.

Source: [Siemens](#)

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