


**TECHNICAL SPECIFICATION
MOBILE C-ARM**

NAME OF PRODUCT	Basic digital flat detector C-arm
IMAGE	
BRAND / MANUFACTURER	SIEMENS
MODEL / TYPE	CIOS SELECT FD
COUNTRY OF ORIGIN	China
FACTORY OF ORIGIN	China
REFERENCE OF TECHNICAL	
X-RAY TUBE ANODE	Single tank with single-focus anode tube
Tube power rating, kW @ 100 kVp	2.3 kW
Heat capacity, HU	1.200.000 HU
Max. uninterrupted fluoro time	60 min at 400 W
Maximum output, kVp	110 kV
Range	40 - 110 kV
Continuous fluoroscopy	0.2 to 13 mA
Pulsed fluoroscopy	3 mA to 24 mA
Digital radiography	3 mA to 24 mA
Focal spot, mm	0.6 / 1.0
X-RAY GENERATOR	
Inverter control frequency	29 kHz to 44 kHz
Inherent filtration	3 mm Al with 70 kVp / 0.1 mm Cu
DIGITAL FLAT DETECTOR	aSi with CsI scintillator
Field of View	20.58 x 20.58 cm
Pixel size	205 µm
Matrix	1004 x 1004 pixels
Digitization depth	16 bits
Input fields	Mag 0 : 20.58 cm x 20.58 cm Mag 1 : 15 cm x 15 cm Mag 2 : 10 cm x 10 cm
SYSTEM CONTROL	Digital display touch-screen.
Footswitch	Yes
C-ARM MOVEMENT	Manual
Brakes	Manual, color-coded
Cone-detector distance (free space)	81 cm
Focus-detector distance	103 cm
Depth of immersion	73 cm
Orbital movement	130° (- 40° to + 90°)
Angulation	± 190°
Horizontal movement	20 cm
Swivel range	± 12°
Vertical travel	42 cm, motorized
UPS (Uninterruptible Power Supply)	Yes, built in trolley monitor
DOSE REDUCTION FUNCTIONS	CARE (Combined Applications to Reduce Exposure)
Automatic dose control	Yes
Automatic contrast and brightness control	Yes
Radiation-free positioning of primary collimator	Yes, CAREPROFILE
Selection of dose levels and operating modes	Yes, CAREVISION
Radiation release light indicator	Yes, on trolley
Dose measuring chambers	Yes
DATA TRANSFER AND DOCUMENTATION	
DICOM compatibility	DICOM 3.0
Offline data writer	CD, DVD, USB
MONITOR DISPLAY	2 x TFT color display
Screen size	19" (48 cm)
Image matrix	1280 x 1024 pixels
Maximum brightness, typical	350 cd/m2
Horizontal/vertical viewing angle	178° / 178°
DIGITAL PRINTER	Yes, Sony or equal

Cios Select
Smart surgical imaging
 Introducing flat-detector capabilities to routine surgery.
www.healthcare.siemens.com/cios-select

SIEMENS Healthineers

Smart surgical imaging.

As the pressures on healthcare providers are increasing worldwide, having to do more with less has become an all-too-known requirement. No wonder then that a growing number of surgeons is asking for more powerful routine imaging equipment. Currently, however, the required technology is only accessible in high-end systems.

This is why we equipped Cios Select* with modern flat-detector technology, combining premium capabilities with an economic system design. The result is a system that offers excellent images, easy handling, and high system availability.

For you, this means access to optimal support in surgical procedures, efficient workflows, and high reliability in multidisciplinary use. Clearly a smart choice for your surgical routine.

Cios Select
 Introducing flat-detector capabilities
 to routine surgery



At a glance

Learn how Cios Select combines flat-detector technology and an economic system design into a smart choice for routine surgery.

Retina FD technology See more anatomical details

Cios Select features flat-detector technology. See the difference with large field of view, distortion-free images, and high spatial resolution. Retina FD technology offers better anatomical coverage, fewer images per procedure, and better visualization of details.

Smart The right dose in each individual case

For each patient and every step of the procedure, Cios Select offers automated optimization of dose, brightness, and contrast. In addition, protect your youngest patients with dedicated pediatric features and exam sets.

Smart power management The right power whenever and wherever you need it

Whatever your power need, Cios Select has an answer: from crisp static imaging for documentation to dynamic imaging of moving objects. It also offers high heat storage capacity, and is powerful enough to support you through long-lasting procedures.



Wireless Freedom! Collaborate freedom to the OR

The footswitch may be one of the last things you want to worry about in the OR. This one is as hassle-free as it gets: wireless, flexible to position, waterproof, easy to clean, and long-lasting.

*Cios Select
 **Compared to conventional mobile C-arm, data on file.

