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 positining 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



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.

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.

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.

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.



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.

*Option



Smart touch user interface

Flexible and consistent system control

When things need to be smooth and efficient, Ciao Select supports you with a smart touch user interface. With a large preview image and your choice between basic and advanced mode, it gives you flexible and consistent system control – both at the C-arm and from the monitor cart.

Large C-arm geometry

For easy patient and system positioning

Ever feel like your imaging equipment claws you down? Ciao Select is made for easy patient and system positioning. Its C-arm geometry offers up to 25% more space**, but it is still light and easy to maneuver. It offers a laser light localizer* and its color-coded axis and brakes significantly ease communication in the OR.

Data transfer and data management

Advanced connectivity

With Ciao Select, you're fully connected – and you don't have to worry about data transfer and storage. Offering flexible data management and full DICOM 3.0 functionalities*, Ciao Select safeguards seamless data integration into your institution's networks.

Reliable system design

Outstanding reliability and serviceability

But can you rely on it? Yes, you can. Ciao Select is proven to offer high uptime, a long lifecycle, and low maintenance. In addition, it's service friendly and comes with built-in protection against overheating and data loss.

Reliability – experience 99.8% system availability**

Ciao Select has got you covered: Profit from manufacturing excellence for outstanding reliability. At the same time, its smart and lean design facilitates quick and effective service. See for yourself why our installed base reports 99.8%** system availability.



Ciao Select
Introducing flat-detector capabilities to routine surgery



Accuracy – see more with flat-detector technology

Ciao Select comes with premium technology that helps you improve imaging accuracy: See more details, at the right dose and with the right power. Profit from optimal support for your surgical procedures – thanks to flat-detector technology and automated dose optimization.



Productivity – streamline your work with smart touch user interface

Ciao Select allows you to efficiently tackle everyday interventions. Built for intuitive handling and productivity, it lets you preview images and operate the system via smart touch user interface. Experience hassle-free operation with a wireless footswitch* – and profit from easy patient positioning thanks to its large C-arm geometry.

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all enabled by digitalizing healthcare.

An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 170 years of experience and 18,000 patents globally. With more than 48,000 dedicated colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

The outcomes and statements provided by customers of Siemens Healthineers are unique to each customer's setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, and level of service/technology adoption), there can be no guarantee that others will achieve the same results.

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Siemens Healthineers Headquarters
Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

USA
Siemens Medical Solutions USA, Inc.
Healthcare
40 Liberty Boulevard
Malvern, PA 19355-9990, USA
Phone: +1-888-826-9702
siemens-healthineers.us

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