

**SIEMENS**



# Cios Select

Select smart surgical imaging

[siemens.com/cios-select](http://siemens.com/cios-select)





# A smart choice: quality surgical imaging and service from one reliable partner

**Many supposedly cost-effective mobile C-arms turn out to be expensive in the long run. For example, surgical procedures have to be postponed because of frequent and lengthy system downtimes. This can result in frustrated staff and patients, and also have a negative effect on an institution's reputation. Many system downtimes also result in higher service costs.**

Safeguard the financial sustainability of your clinical institution with smart surgical imaging and service from a single reliable partner – with Cios Select. This robust mobile C-arm is a smart choice in every respect, featuring a lean design, long lifecycle, and low maintenance requirements. Cios Select is grounded in our in-depth expertise in surgical imaging, tailored service offerings, and high quality standards. We monitor your system remotely via the Siemens Remote Service (SRS) platform and provide preventive maintenance, resulting in system availability of 99.8%\*. What's more, with our tightly knit service network, we're on site – wherever you are around the globe.

Cios Select meets all your daily intraoperative surgical needs. Smart features, such as color-coded brakes or our one-button-to-image philosophy, make system operation intuitive and reduce training requirements. IDEAL (Intelligent Dose Efficiency Algorithm) automatically regulates dose, contrast, and brightness – providing sharp, low-dose images for confident clinical decisions.

**Designed to support you in your work,  
Cios Select is your true partner in performance.**

**99.8% system availability\*** –  
reliability in a smart, lean design

**Smart system operation** –  
with an intuitive user interface

**High image quality** –  
combined with IDEAL dose management

\* Average system availability over the entire Siemens Healthcare C-arm installed base

# 99.8% system availability\* – reliability in a smart, lean design

Frequent system downtime is typically associated with higher maintenance requirements, which in turn can result in costs that can't be calculated in advance.

Keep your operational costs predictable by providing your OR team with a robust C-arm that is characterized by high uptime and low maintenance.

#### Manufacturing excellence you can trust

Cios Select is the successor in a long line of well-known and proven mobile C-arms. It has more than five decades of Siemens Healthcare's in-depth expertise in surgical imaging built in. And it is based on the experience we've acquired with more than 10,000 installed mobile C-arms in this market segment – which all excel with 99.8% system availability\*.

#### Proven high uptime, long lifecycle, low maintenance

Cios Select fully meets our high quality expectations. To verify system endurance, for example, we conducted more than 441,000 test cycles on system movements. The outstanding heat storage capacity performance contributes to effective heat management – even for long-lasting fluoroscopy scenes. Thanks to the uninterrupted power supply (UPS), Cios Select securely stores all data before shutting down in the event of unintended disconnections from the mains. And the open service-door design gives service technicians fast system access.

#### Tailored service offerings for peace of mind

Siemens Healthcare's comprehensive service offerings can be tailored to your needs – helping to prevent unscheduled downtime and improve your workflow. From preventive maintenance and system updates to fast on-site response; from technical phone support to Siemens Remote Service, our Performance and Protect Plans are designed to improve system availability while providing predictable costs and great efficiency.

\* Average system availability over the entire Siemens Healthcare C-arm installed base



Robust system design in every detail: the control panel and keyboard are waterproof and easy to clean

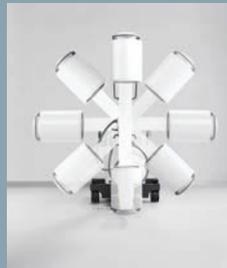


Cios Select is a robust mobile C-arm characterized by high system availability and low maintenance





Endurance test –  
we carried out more than  
**441,000**  
system movements



380° angulation



130° orbital rotation



20 cm horizontal movement



78 cm free space, 42 cm vertical travel

Enjoy a compact, lightweight, counter-balanced C-arm design

# Smart system operation – with an intuitive user interface

Experienced staff might not be available for every procedure, especially if the equipment is complex and requires extensive training. Operating errors or having to repeat a step affects your working efficiency and results in additional delays or waiting times during interventions.

Leverage your workforce and reduce training requirements with smart, intuitive system features like color-coded brakes and a concise control panel that simplify system operation.

## A C-arm that's never in your way

In order to keep the tight schedule of routine interventions, a smooth workflow is essential. The compact, lightweight Cios Select is fully counter-balanced for easy maneuvering and positioning – saving your staff time and effort. With its extended 78 cm (31") free space and 73 cm (29") immersion depth, the mobile C-arm allows ideal patient access at all times.

## Easy and efficient system handling

Thanks to our one-button-to-image philosophy, users simply need to push the release button for standard image acquisition – with no need for complex presets. The concise control panels on the main unit and the monitor cart are intuitive to use, with buttons grouped in a workflow-oriented way. All important functions and applications can be activated with a single button push. With this smart operating concept, Cios Select keeps training requirements low.

And during interventions, color-coded axes and brakes, as well as the integrated laser-light localizer\*, facilitate easy and precise C-arm positioning.

## Advanced connectivity and archiving

You can seamlessly integrate Cios Select into your hospital network via LAN. The mobile C-arm has a huge local storage capacity of up to 150,000 clinical images. These can be easily stored offline in DICOM format on CD, DVD, and USB for comprehensive patient documentation. As Cios Select supports virtually all DICOM 3.0 functionalities\*, your staff also benefits from flexible data handling.

\* Option



Easy and precise C-arm positioning with color-coded axes and brakes



Buttons are grouped in a workflow-oriented way



Simply push the release button for standard image acquisition

# High image quality – combined with IDEAL dose management

Insufficient image quality can cause treatment errors. With patient expectations rising, this can lead to dissatisfaction and even affect your reputation.

Improve patient care by giving your staff access to sharp, low-dose images enabled by proven optics and intelligent imaging algorithms like IDEAL (Intelligent Dose Efficiency Algorithm) as well as a basic vascular option.

## Matches your surgical portfolio

Cios Select is ideal for all routine surgical procedures in ortho and trauma surgery as well as urologic procedures like lithotripsy and endourology. Thanks to its Subtraction\*/ Roadmap\* and quantitative measuring functions\*, it also supports basic vascular surgical interventions on the extremities.

## Sharp images for sound decisions

From still images with 2.5 kW maximum output power to continuous and pulsed fluoroscopy with up to 10 pulses per second, Cios Select offers all required imaging modalities. The mobile C-arm shows anatomical details in sharp quality at high resolution and keeps distortions to a minimum – thanks to advanced CCD camera and optics, small focal spots of 0.6/1.0 mm, and a mu-metal shielded 23 cm (9") image intensifier.

## Optimally balance image quality and dose

With Cios Select, you get a clear view of anatomical details at low dose. Our unique IDEAL dose reduction algorithm automatically optimizes dose, contrast, and brightness. Even in critical situations – for example, when evaluating joint movement function under fluoroscopy – you see images in excellent quality thanks to Tech lock.

\* Option



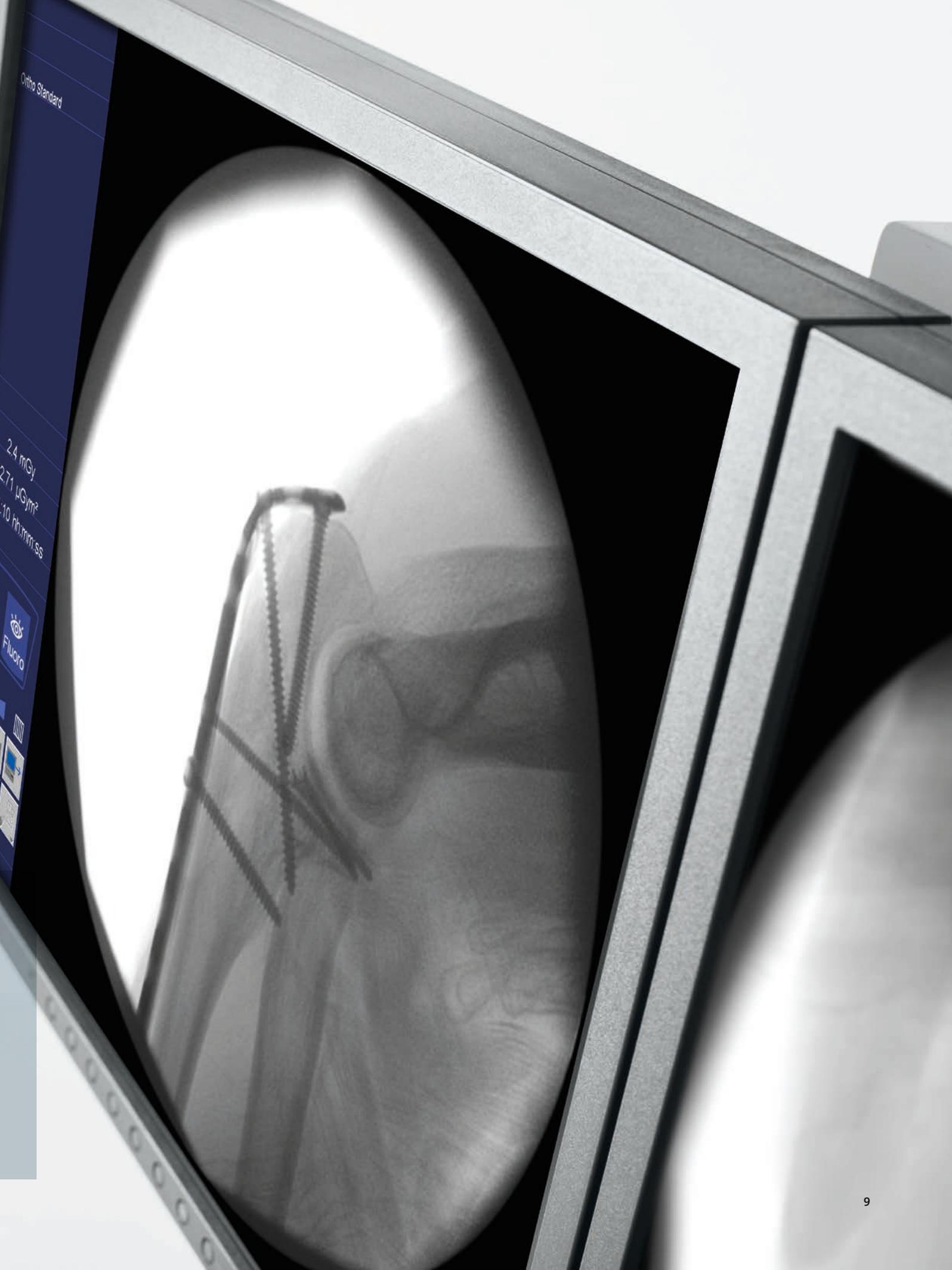
Proven image intensifier technology makes Cios Select a smart and reliable choice



Thanks to its advanced CCD camera and optics, Cios Select delivers sharp images at high resolution



With IDEAL dose management, you benefit from high image quality at the lowest possible dose



Ortho Standard

2.4 mGy  
271  $\mu$ Gym<sup>2</sup>  
:10 hh:mm:ss

Fluoro

# The right power – whenever and wherever you need it

In the OR, a mobile C-arm must answer various power needs. These can be categorized as static imaging for documentation, dynamic imaging for acquiring an image series – for example, moving objects – and long-lasting procedures.

Each of these applications involves different challenges. It takes the right combination of a range of factors to ensure reliable, high-quality, never-tiring support. Cios Select supports your work with intelligent power management

built in – always setting the right parameters according to the organ program selected. For static imaging, Cios Select utilizes its maximum peak power of up to 2.5 kW for crisp images. To avoid motion blur in fast, dynamic images, it combines high frame rates with a low minimum pulse width. And if you need long-lasting power, Cios Select prevents overheating with its high heat capacity – to give just one example.

**Whatever your requirement – Cios Select is your true partner in performance.**



**Static imaging –**  
for imaging static objects  
and documenting surgical  
results



**Dynamic imaging –**  
exceptional high maximum tube  
current in pulsed fluoroscopy  
mode results in high peak  
output power



**Long-lasting imaging –**  
high maximum average power  
for prolonged pulsed fluoroscopy  
and effective heat management

“*For emergency cases during a night shift, our nurses choose the C-arm that is easiest to handle and operate. Cios Select is our preferred choice. And also the image quality of Cios Select exceeded my expectations.*”

Paul A. Gruetzner, MD  
Head of the Department of Orthopedics and Trauma Surgery  
BG – Klinik Ludwigshafen, Germany



# Cios Select – an image gallery



Fibula distal



Shoulder



Radius distal



Tibia distal



Elbow



Calcaneus

# Cios Select

## Select smart surgical imaging

### Proven image intensifier technology

Sharp images at high resolution

### IDEAL (Intelligent Dose Efficiency Algorithm)

Automatic optimization of dose, brightness, and contrast

### Compact and lightweight design

Easy system maneuvering and positioning



### Smart system operation

Color-coded axes and brakes and the concise control panel facilitate intuitive operation and simplify communication in the OR



### High bright color monitors\*

Display of live and reference images in high detail and for a wide clinical spectrum



### Robust and enduring system design

99.8% system availability\*\*



\* Option

\*\* Average system availability over the entire Siemens Healthcare C-arm installed base

# Experience why detail matters

**Around the world, Siemens Healthcare is known for innovation power and technology leadership. All our medical systems are backed by more than 125 years of experience.**

Cios Select has our in-depth expertise in medical technologies built in and lets you benefit from our R&D innovations. In fact, our wealth of experience lays the foundation for the smart details that matter. Like our one-button-to-image philosophy and the color-coded axes, brakes, and handles that facilitate system usage. The intelligent power management that provides the ideal power for your surgical requirements. Or the advanced optics combined with our unique IDEAL dose reduction algorithm for sharp, low-dose images. These and many more details make Cios Select a smart choice for surgical imaging.

**Cios Select: because detail matters.**

## **Transform financial risk into managed costs**

Balance the risk of system failure against the total cost of ownership for your Cios Select and fulfil quality expectations with a Protect Plan Select. Special components are included in your service agreement, and you can optimize system availability by relying on Siemens Healthcare's parts logistics – to transform downtime risk into managed cost. We keep your systems safe, helping to assure your clinical quality by making sure that your systems are kept within the specifications issued by regulatory authorities. To have all service parts covered, please choose a Protect Plan Complete. If you prefer to include corrective maintenance additionally, a Performance Plan TOP is your contract of choice.

## **A safe investment**

Cios Select is a safe investment that meets both your clinical and budget needs. Based on the engineering and manufacturing excellence from Siemens Healthcare, the mobile C-arm excels with high uptime, long lifecycle, and low maintenance – thoroughly tested and proven. It seamlessly integrates into your surgical workflow and hospital network. The operating elements have the well-known Siemens Healthcare look and feel, which translates into flexible staff usage and minimal training requirements. In short: Cios Select is a smart investment that really pays off.

*CiOs Select*

Cios Select is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

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