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**SIEMENS**

# Cios Connect

Connect everyday surgery with reliability

[siemens.com/cios-connect](https://www.siemens.com/cios-connect)

## Siemens Healthcare Headquarters

Siemens Healthcare GmbH  
Henkestr. 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0  
[siemens.com/healthcare](https://www.siemens.com/healthcare)

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# Reliable and multifunctional: increasing efficiency in the OR every day

The everyday conditions in most ORs are similar: Volatile caseloads result in bottlenecks for therapy processes. This leads to conflicts when it comes to assigning C-arms for planned surgical procedures. As a result, surgical interventions may have to be performed with suboptimal systems – just because the most suitable C-arm is in use elsewhere.

Increase your return on assets with a reliable multifunctional C-arm for everyday surgery – Cios Connect. Scheduling the mobile C-arm for your daily surgical procedures is easy because it conveniently meets your clinical needs: Cios Connect caters for all the relevant surgical disciplines, including ortho/trauma/spine, vascular and general cardiac surgery, pain management, and urology.

Its lightweight design and elaborate features, such as single-handed steering and brake lever, as well as the intuitive user interface, facilitate system handling and increase efficiency in your OR. In addition, the imaging chain with IDEAL (Intelligent Dose Efficiency Algorithm) provides an outstandingly sharp visualization of anatomical details at low dose. And best of all, this robust C-arm is extremely reliable throughout its entire lifespan.

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

**Simplify your fleet management –**  
with a multifunctional C-arm

**Optimally balance between  
image quality and dose –**  
with IDEAL

**Increase asset utilization –**  
with preventive maintenance  
and high system availability



# Simplify your fleet management – with a multifunctional C-arm

At peak caseloads, it can be challenging to assign the right C-arm to a specific procedure, and staff may have difficulties in handling a system they are not used to.

Drive process efficiency and simplify your fleet management with a compact multifunctional C-arm that matches your surgical requirements and is easy and intuitive to handle.

**Process efficiency in everyday surgery**  
For your everyday surgery, you need a C-arm that simply matches your routine. As a multifunctional and multi-purpose mobile C-arm, Cios Connect offers great clinical flexibility throughout a wide range of applications. It covers surgical disciplines from orthopedic, trauma, and spine surgery to basic vascular and entry-level cardiac procedures. Via the NaviLink 2D Interface, you can connect navigation systems from all leading manufacturers for true digital navigation. This high versatility across different applications helps you simplify OR planning and C-arm assignment – which results in the need for fewer C-arms.

**Intuitive operating concept**  
Truly mobile, Cios Connect allows fast transportation from one OR to the next – thanks to the compact, lightweight design of the C-arm and the monitor cart. Safe and easy system handling enables fast and intuitive C-arm positioning as well as short turnaround times. During surgery, color-coded axes and brakes help simplify communication and orientation, even with a changing staff. Well thought-out details – from self-explanatory icons to the one-touch activation of all important functions and applications – allow for intuitive operation and reduced training requirements.

**Advanced connectivity and archiving**  
Seamlessly integrate Cios Connect into your hospital network via LAN or WLAN\*. Up to 150,000 clinical images can be stored locally. For comprehensive patient documentation, they can also be easily stored offline in DICOM format on CD, DVD, and USB. Because Cios Connect supports virtually all DICOM 3.0 functionalities, your staff benefits from flexible data handling.

\* Option



The intuitive button-based user interface facilitates system operation and is easy to clean



Color coding for easy system handling



Single-handed steering and brake lever for safe and easy maneuvering



Foldable monitors for safe transportation and space-saving parking



# Optimally balance between image quality and dose – with IDEAL

Achieving the best possible image quality at low dose and protecting OR staff and patients from unnecessary radiation are becoming increasingly important factors in modern imaging. Outdated technology provides good image quality only at the cost of questionably high dose.

Improve patient outcomes by clearly seeing anatomical details at low dose thanks to high-end optics and our unique IDEAL (Intelligent Dose Efficiency Algorithm).

**Clear images for sound decision-making**  
In order to make fast and confident decisions, surgeons need to see. Cios Connect shows anatomical details at clear quality and keeps distortions to a minimum – thanks to superior optics and our high-end CCD camera as well as the mu-metal shielded 23 cm (9”) image intensifier. In addition, the C-arm can be positioned radiation-free with the laser-light localizer\* on the image intensifier and tube.

**Keeping dose as low as possible**  
We at Siemens Healthcare always strive to keep dose as low as possible for both patients and staff. Cios Connect has our unique IDEAL (Intelligent Dose Efficiency Algorithm) dose management algorithm built in. It automatically optimizes dose, contrast, and brightness for clear image quality at very low dose.

**Intelligent power management**  
What really counts in surgery is high imaging performance over longer periods, not just for a single shot. Cios Connect offers intelligent power management for reliable, high-quality, and never-tiring support – and you don’t have to worry about overheating or image quality degradation.



\* Option



The image intensifier has superior optics and our high-end CCD camera built in



Thanks to IDEAL and our CARE program (Combined Applications to Reduce Exposure), clear images can be achieved at low dose



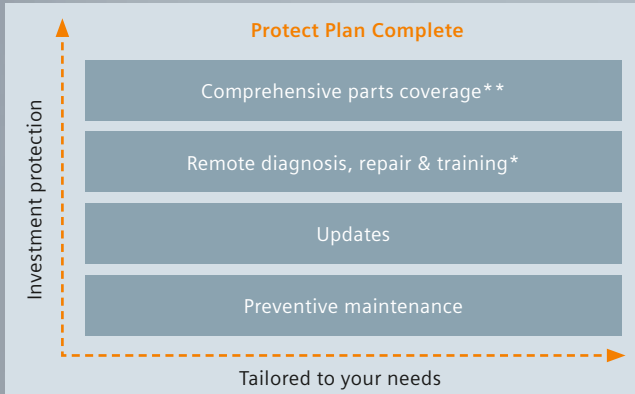
# Increase asset utilization – with preventive maintenance and high system availability

A mismatch between case-specific needs and system capabilities can lead to an insufficient return on assets and rising total cost of ownership (TCO).

Cut your TCO and increase asset utilization in surgical imaging with a robust multidisciplinary C-arm that excels with high system uptime and preventive maintenance.

**Easy OR planning, excellent system uptime**  
Meeting versatile requirements for multidisciplinary use, Cios Connect helps you simplify your C-arm assignment. High system uptime and low maintenance requirements enable reliable planning of OR schedules. Hardware and software have been thoroughly tested and proven – translating into excellent reliability without overheating, even during long procedures.

**Tailored service offering for peace of mind**  
The service offering Protect Plan Complete is specifically tailored for Cios Connect. Including features like complete parts coverage, fast and efficient remote diagnosis and repair via our Siemens Remote Service (SRS) platform, and regular updates on the latest safety and performance status, it has been designed to help improve system reliability while providing predictable costs, lower risk, and greater efficiency.



Tailored service offering for Cios Connect



Simplify your C-arm assignment with a system designed for truly multidisciplinary use

\* Depends on country service strategy  
\*\* If corrective maintenance needed: discount on labor



# 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 Connect supports your work with intelligent power management

built in – always setting the right parameters according to the organ program selected. For static imaging, Cios Connect utilizes its maximum peak power 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 Connect prevents overheating with its high heat capacity – to give just one example.

**Whatever your requirement – Cios Connect 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



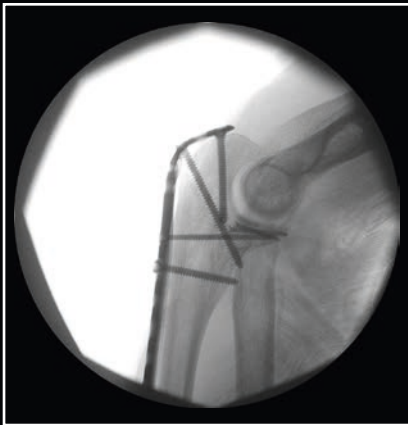
**Long-lasting imaging –**  
high maximum average power  
for prolonged pulsed fluoroscopy  
and effective heat management

“I like Cios Connect because of its small size. It is easy to handle in the OR and the image quality is very good compared with conventional image intensifier-based C-arms.”

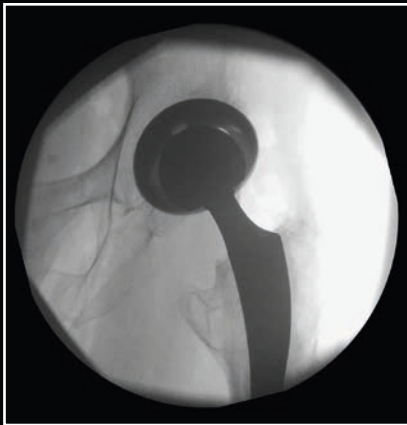
Christian Rapke, MD  
Department of Orthopedics and Traumatology, Klinikum Nuremberg, Germany  
General Hospital and University Hospital of Paracelsus Medical University



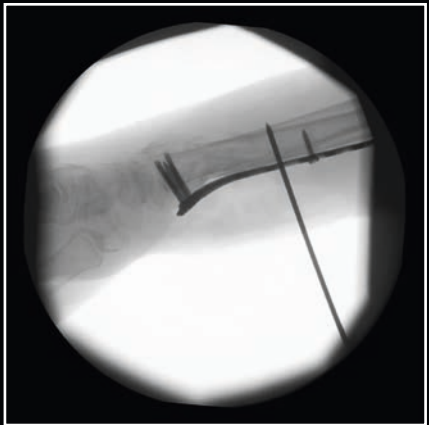
# Cios Connect – an image gallery



Humerus



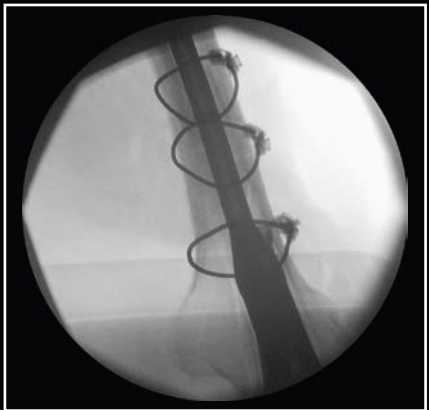
Femur head



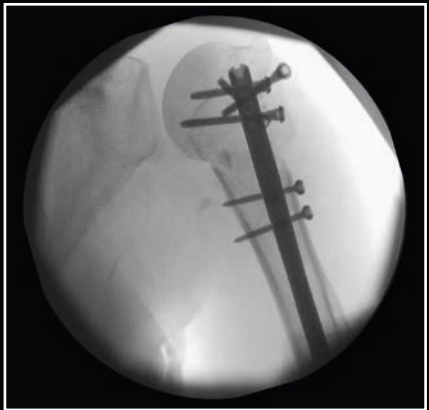
Radius distal



Tibia distal



Femur head



Humerus

# Cios Connect

Connect everyday surgery with reliability

## Advanced image intensifier technology

Clear images for sound intraoperative decisions

## IDEAL (Intelligent Dose Efficiency Algorithm)

Automatic optimization of dose, brightness, and contrast

## Compact and reliable design

Ideally suited for multi-disciplinary use, and easy to maneuver and position

## Excellent system availability

Outstandingly reliable hardware and software with low maintenance effort for high system utilization

## Easy system handling

Single-handed steering and brake lever, color-coded brakes, and the concise control panel facilitate intuitive operation and simplify communication in the OR

## Great clinical flexibility

Suitable for a broad range of surgical disciplines, which simplifies OR management



# 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 Connect has our in-depth expertise in medical technologies built in and lets you benefit from our innovations.

Its compact design makes the mobile C-arm easy to maneuver. The extended free space allows excellent patient access. The intuitive operating concept based on color coding and an interface with self-explanatory icons keep training effort low. These and other details make Cios Connect a reliable choice for everyday surgery.

**Cios Connect: because detail matters.**

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

Balance the risk of system failure against the total cost of ownership for your Cios Connect with a Protect Plan Complete. Service parts and 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. If you wish to additionally cover corrective maintenance, a Performance Plan TOP from Siemens Healthcare is the right choice for you.

## **A safe investment**

Cios Connect is a safe investment for everyday surgery – thanks to multifunctional usage, reliable throughput, and long lifecycle. Based on the well-known engineering and manufacturing excellence from Siemens Healthcare, the mobile C-arm excels with high uptime and low maintenance. 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 effort. In short: Cios Connect is a safe investment that pays off every day.