

Cios Select

# Select smart surgical imaging

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



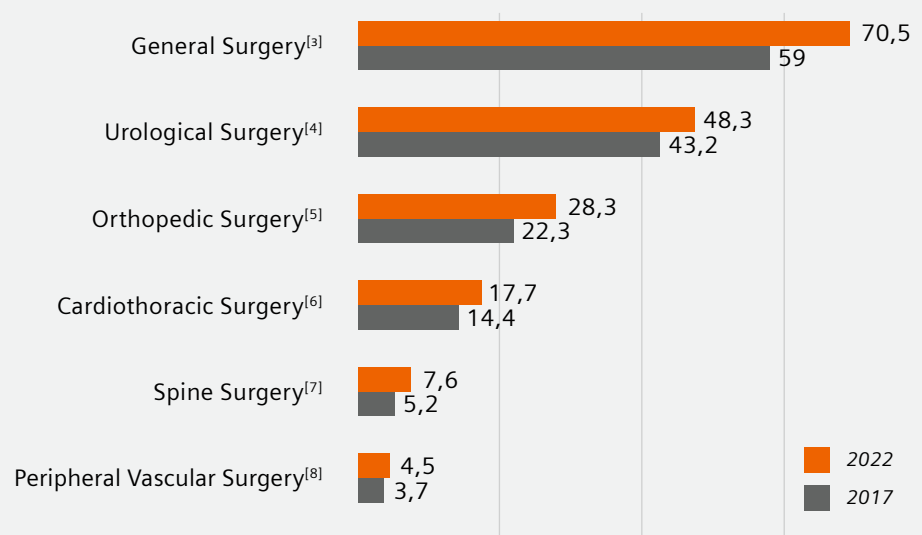
**SIEMENS**  
Healthineers 

# Prepare for further growth

No matter what country or what type of surgery we focus on, the market for surgical interventions is growing.<sup>[1]</sup> But despite this trend, additional 143 million procedures are needed each year.<sup>[2]</sup> This calls for smart, affordable solutions.

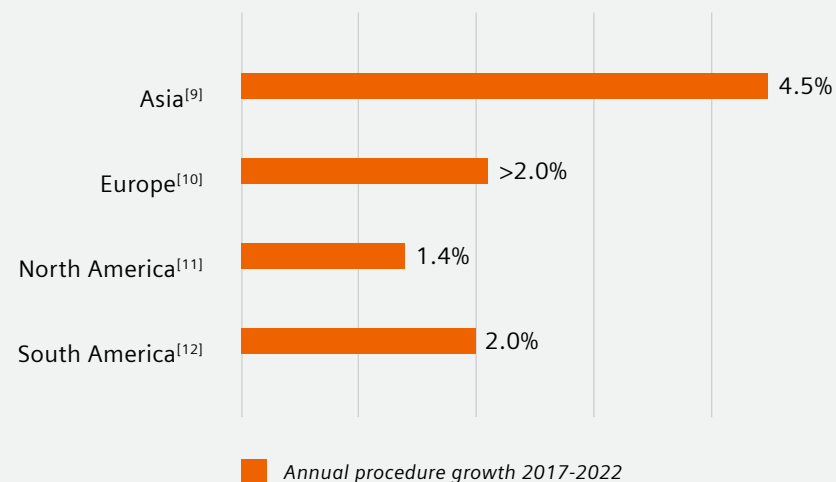
## Significantly more procedures\*

(Number of procedures in million)



\* Status March 1<sup>st</sup>, 2021

## Strong growth worldwide



# Select smart surgical imaging

Premium capabilities for surgical routine

As the pressures on healthcare providers increase worldwide, doing more with less has become an all-too-familiar requirement. No wonder that a growing number of surgeons is asking for more powerful routine imaging systems.

This is why we've equipped Cios Select with proven, high-quality image intensifier technology, enhanced by smart image quality and dose algorithms, a wireless footswitch, and advanced cyber security. The result is a system that delivers excellent images, easy handling, and high system availability.

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

Cios Select. Select smart surgical imaging.



**Accuracy**

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**Productivity**

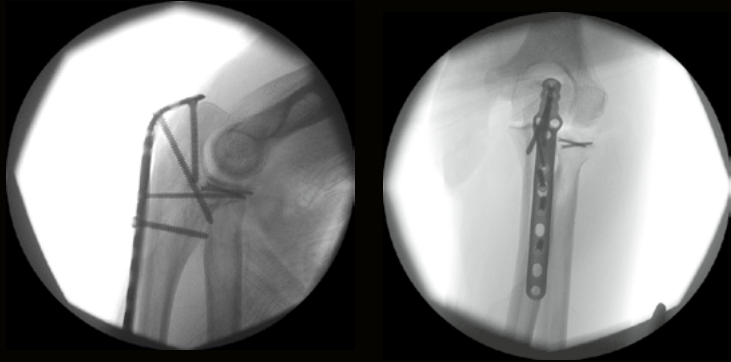
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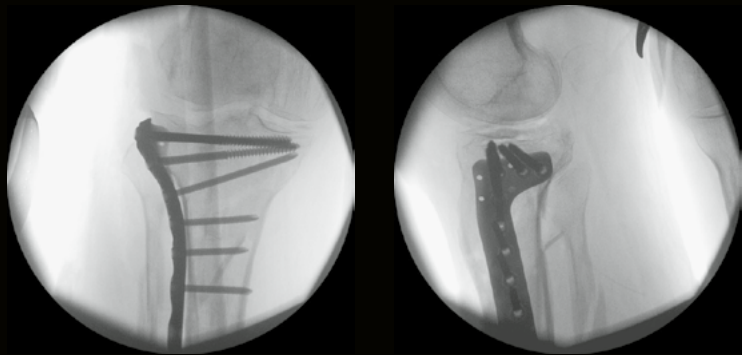
**Reliability**

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Cios Select for orthopedic and trauma cases



Proximal radius

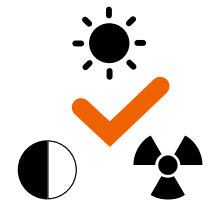


Proximal tibia

## Accuracy – Acquire sharp, balanced images

With the rise of precision medicine, visualization in the OR is more important than ever. If imaging results suffer from low visual resolution, or dose issues, this can negatively affect the surgical outcome.

Cios Select supports your surgical procedures with sharp, high-resolution images thanks to smart image quality and dose algorithms, metal correction, and dedicated organ programs.



Automated adjustment  
of dose, brightness, and  
contrast.

## Productivity – Streamline your workflow

Cumbersome imaging equipment can lead to slower operational flow, prolonged OR times, dissatisfied staff, and higher costs. Especially in routine surgery, procedures are expected to be smooth and quick – and efficiency is key.

Cios Select helps you simplify everyday interventions and reduce training time. The generous C-arm geometry enables easy system and patient positioning, while a new wireless footswitch and a clearly designed control panel support high operational efficiency.



## Reliability – Profit from proven excellence

In daily routine with high patient load, system downtime is a major setback – and may lead to conflicts in OR scheduling, dissatisfied patients and additional costs. What's more, cyber attackers increasingly exploit security gaps to infiltrate or shut down vulnerable systems.

Cios Select has got you covered: Statistical evaluation of our installed base showed system availability above 99.8%. In-house endurance tests of 441,000 cycles were passed with ease. For even more peace of mind, Cios Select includes advanced cyber security to safeguard data and access: from whitelisting to data encryption, state-of-the-art user management, and more.



## At a glance

Cios Select gives you access to sharp and balanced images, productive workflows, and high system availability.

**Proven image intensifier technology**  
Sharp imaging is enabled by the high-resolution X-ray video system with a 1024 x 1024 full-size sensor, and the 2.5 kW high-frequency generator with up to 24 mA tube current.

**Smart image quality algorithms**  
For ideally balanced images, intelligent algorithms automatically adjust brightness, dose and contrast, detect motion, enhance edges, and reduce metal artifacts.

**CARE technology**  
Helps surgeons consciously apply the right dose – with the help of exam sets, dose buttons, dedicated pediatric modes, and a radiation dose report.

**Compact and lightweight design**  
With its large immersion depth and generous free space,\* Cios Select supports excellent patient access and makes it easy to position and maneuver the system.

**One-button-to-image philosophy**  
To acquire an image, only the X-ray release button is needed, supported by default system presets and system automation.







#### High-brightness color monitors

Cios Select comes with two high-brightness color monitors for live and reference imaging in great detail.

#### Wireless footswitch

For waterproof, cableless freedom in the OR: more flexible positioning of the footswitch, plus easier cleaning.

#### Manufacturing excellence

Expert engineering measures up. Proven system availability of > 99.8% is one of our outstanding results.\*\* Cios Select successfully completed over 441,000 endurance test cycles.

#### Product safety, cyber security, data privacy Cios

Select comes with advanced features that ensure a high level of safety for sensitive patient data and can decrease the success rate of cyber attacks.

#### Protection against overheating

Effective heat management and high heat-storage capacity enables 50 minutes of uninterrupted fluoroscopy time at 300 W.

\* 764 mm immersion depth, 780 mm free space

\*\* Statistical evaluation of our installed base



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- [1] Life Science Intelligence, Inc. (2018). General Surgery: Global Trends & Opportunities.  
<https://www.lifesciencemarketresearch.com/market-reports/general-surgery-global-trends-opportunities-2018>
- [2] Meara JG, Leather AJM, et al. (2015). Global Surgery 2030: evidence and solutions for achieving health, welfare, and economic development. Lancet. 386: 569–624.  
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- [3] <https://www.lifesciencemarketresearch.com/market-reports/general-surgery-global-trends-opportunities-2018>
- [4] <https://www.lifesciencemarketresearch.com/market-reports/urological-surgery-global-trends-opportunities-2018>
- [5] <https://www.lifesciencemarketresearch.com/market-reports/orthopedic-surgery-global-trends-opportunities-2018>
- [6] <https://www.lifesciencemarketresearch.com/market-reports/cardiothoracic-interventional-cardiology-global-trends-opportunities-2018>
- [7] <https://www.lifesciencemarketresearch.com/market-reports/spine-surgery-global-trends-opportunities-procedure-volumes-analysis-2018>
- [8] <https://www.lifesciencemarketresearch.com/market-reports/peripheral-vascular-surgery-global-trends-opportunities-2018>
- [9] <https://www.lifesciencemarketresearch.com/market-reports/asia-trends-opportunities-2018>
- [10] <https://www.lifesciencemarketresearch.com/market-reports/europe-trends-opportunities-2018>
- [11] <https://www.lifesciencemarketresearch.com/market-reports/north-america-trends-opportunities-2018>
- [12] <https://www.lifesciencemarketresearch.com/market-reports/latin-america-trends-opportunities-2018>

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