At the nexus of treatment innovation
nexaris Angio-MR-CT

A nexaris Therapy Suite
Image-guided therapy relies on the versatility of medical imaging to improve the localization and targeting of diseased areas and control the quality of results. Over the past few years, image-guided surgery and image-guided minimally invasive interventions have emerged as a replacement for some invasive approaches.

Our aim is to provide clinicians and hospitals with solutions to pioneer new procedures and make them safer, faster, and less costly. We are constantly working to bring new, innovative multi-modality imaging solutions to both single and multi-room settings. With technology that lets you seamlessly combine imaging along the entire clinical pathway, you gain greater flexibility and can achieve better clinical outcomes for your patients.

Close collaboration with strategic partners in therapy delivery and device manufacturing is helping us co-create the best therapy ecosystem possible. Together with our clinical and industry partners, we can realize therapy suites that unlock a multitude of opportunities for you to advance therapy outcomes.
Staying ahead in today’s healthcare market

For healthcare providers, the industry-wide shift from fee-for-service models to value-based reimbursements is creating increased economic pressure. The needs of the growing aging population add to this – and demand for safer and more effective treatment creates further challenges due to the associated costs. Advancements in medical imaging enable hospitals to stay ahead by developing and performing innovative minimally invasive procedures.

Aging population pressure

By 2020, the number of people older than 60 years is expected to surpass the number of children younger than five years of age.1 The aging population confronts health systems with challenges, particularly in regard to cancer treatment that requires surgical intervention.

The rise of intraoperative imaging

The market for intraoperative imaging is expanding rapidly. Angiography, MRI, and CT systems have steadily been making their way into the ORs and interventional suites of modern hospitals. Over the next five years, projected market growth will be in the double digits.2

Image guidance enables cost-effective procedures3

With conventional treatment, costs are difficult to contain. Medical imaging helps optimize procedures for individual patients, which could potentially lead to shorter hospital stays and fewer reoperations. Optimal integration of diagnostics along the treatment path represents an opportunity to improve patient care and minimize costs.
Multi-modality imaging to advance therapy outcomes

Holistic health management is crucial for institutions striving to keep pace in today’s healthcare environment. Beyond early detection of diseases, innovative physicians are also aspiring to more personalized patient care. Their goal: to develop and innovate procedures that make treatment more effective by combining the most advanced minimally invasive techniques and the latest medical imaging methods.

Can you envision how far you could push innovative treatment if you had seamless access to every imaging modality in your operating room?

Siemens Healthineers has developed the revolutionary nexaris Angio-MR-CT which opens up a whole world of possibilities. Combining the proven ARTIS Angiography, MAGNETOM MRI, and SOMATOM CT solutions in one environment, nexaris Angio-MR-CT helps you to obtain valuable image information about the patient by enabling the use of imaging during any stage of the procedure.

In order to eliminate patient repositioning when switching between surgical table and imaging modality, Siemens Healthineers joined forces with Getinge to develop the PILOT* system. This new technology ensures that the patient remains stable in the intended treatment position while all imaging tasks are centered around him. In combination with Getinge’s Transmobil TT-M* patient transporter, the patient can additionally be moved around in the OR, and even beyond, while always remaining in a stable position.

With nexaris Angio-MR-CT, we are removing physical barriers to using multi-modality imaging in the OR for preprocedural planning, intraoperative guidance, and immediate quality control for the benefit of optimal patient outcomes. Whether you need to see the borders of a tumor, evaluate the success of an ablation, or assess perfusion, our intraoperative imaging solutions provide you with the information you need at the right moment for taking action.

As a pioneer in healthcare, you expect us to be your trusted partner to help you change treatment. Now we are handing you the solution that lets you make your vision a reality.

nexaris Angio-MR-CT
Be at the nexus of treatment innovation
Innovating procedures is key for improving patient outcomes

Image-guided minimally invasive therapy can replace many open procedures, which can help minimize complications and boost quality control. Seamless combination of all imaging modalities in one environment is necessary so that you can use imaging for treatment to the fullest extent.

Up to 10% of patients undergoing open procedures such as bowel resection and bariatric surgery suffer postoperative complications—4 and reoperations may prove difficult. Procedures that employ intraoperative imaging reduce risk for patients and lower complication rates, thereby improving patient outcomes and cost efficiency at the same time.

Despite the benefits, imaging setups in the OR today are still rare and, even if available, they may be too complicated to use on a routine basis. Moving the patient between imaging modalities and surgical tables can also introduce unacceptable risk. A study shows that more than half of neurosurgery cases are delayed, possibly because MRI scans are not sufficiently prioritized for surgical navigation planning or there are delays associated with patient transfer.

The combined power of nexaris Angio-MR-CT and the PILOT patient transfer system puts you at the forefront of medical innovation. With barrier-free access to multi-modality imaging, seamless workflows are going to redefine your OR experience.

• Experience seamless access to intraoperative imaging without the need for repositioning patients
• Drive treatment innovation with synergized Angio, MR, and CT image information
• Team up with an experienced partner to customize your nexaris Angio-MR-CT
Advanced imaging

Angiography
- Whole-body 3D imaging for visualizing small vascular structures and needle guidance as well as catheter placement
  - Fluoroscopy
  - DSA (Digital Subtraction Angiography)
  - 3D imaging
  - Needle guidance
  - Image fusion

MRI
- Whole-body MRI for enhanced soft-tissue information without ionizing radiation
  - Soft-tissue imaging
  - Perfusion imaging
  - Diffusion-weighted Imaging
  - Imaging to support ablation verification
  - Vascular assessment

Sliding gantry CT
- Fast and comprehensive image information in time-critical situations
  - High- and low-contrast imaging
  - Skeletal imaging
  - CT angiography
  - CT venous guidance
  - Brain perfusion imaging

Getinge Maquet Magnus
- The patient remains in the final treatment position on the surgical table for imaging with ARTIS pheno or a sliding gantry CT.

Getinge Maquet Transmobil TT-M
- Holistic workflow for patient transfer beyond OR:
  - From helicopter landing pad or ER to ICU, radiology, or OR
  - ICU to OR and back for postoperative care
  - From other ORs to MR modality

Seamless workflows
Transfer patients without repositioning

PILOT is a patient-centered transfer system that eliminates the barriers to using intraoperative whole-body Angio, CT, and MR imaging at any point during the procedure. The patient can be transferred seamlessly throughout the entire hospital and between imaging modalities without repositioning.

The core of the transfer system is the new transfer board, jointly designed by Siemens Healthineers and Getinge. You can slide the transfer board from the Maquet Magnus surgical table to the Combi Dockable Table and back, without patient repositioning.

Furthermore, the patient transporter Maquet Transmobil TT-M allows for patient transfer from anywhere in the hospital to the OR and back.

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Furthermore, the patient transporter Maquet Transmobil TT-M allows for patient transfer from anywhere in the hospital to the OR and back.
Synergized Angio, MR, and CT image information

nexaris Angio-MR-CT paves the way for innovative treatments that combine multiple imaging modalities in a single procedure. Seamless access to cutting-edge imaging offers exceptional precision and quality control, as well as the potential to replace open procedures that are more invasive with minimally invasive alternatives.
**Improved resection results**

Tumor resection requires extreme precision.

Surgical resection still represents the most reliable solid tumor treatment with curative intent. Complete removal (R0) while preserving as much healthy tissue and organ function as possible is all about precision.

**Verification of surgical results is crucial**

Even if all planning was done properly, surgeons must ascertain that the entire tumor has in fact been removed. Cancer recurs locally in up to half of all patients, and this significantly reduces long-term survival.8

Intraoperative multi-modality imaging offers innovation potential.

nexaris Angio-MR-CT provides access to intraoperative imaging to help assess the completeness of tumor resection. Additionally, intraoperative imaging can be used to determine whether the procedure needs to be adapted and continued to ensure optimal patient outcomes. Studies in the field of neurosurgery have shown that intraoperative MRI can be beneficial for physicians who wish to verify tumor resection completeness. In one study, for instance, surgeons modified the procedure for almost 30% of patients in response to intraoperative MRI findings.9, 10, 11 With nexaris Angio-MR-CT, MRI of the whole body is possible as well, and this can dramatically increase the application potential of MRI for treating tumors using resection.

Intraoperative MRI images of the head to check the results of a brain lesion resection. Courtesy of University Clinic of Navarre (CUN), Spain.
Cryoablation of a bone tumor: planning with robotic C-arm

Full control over ablation

Ablation is particularly important in advanced tumor stages. Ablation eliminates cancerous tissue inside the body by delivering either extreme cold or heat using a needle. Less invasive than resection, ablation is particularly beneficial for elderly patients, those at increased risk for bleeding, and patients who cannot tolerate traditional surgery due to other medical conditions. In some cases, ablation represents the only option for prolonging the life of patients with advanced disease who are not candidates for surgery with curative intent.

Accurate targeting and precise guidance pose a challenge

Accurately targeting the tumor and ensuring that small lesions have been fully ablated can be difficult. The widely used CT and cone-beam CT needle guidance cannot be used reliably to verify that the whole tumor has been ablated. MRI can measure multiple parameters which provide information necessary for performing a precise ablation.

Intraoperative multi-modality imaging enables visualization throughout the procedure

With nexaris Angio-MR-CT, syngo DynaCT (cone-beam CT) offers high spatial resolution for visualizing small vascular structures. This supports diagnostic determinations and simplifies needle positioning. Intraoperative CT imaging represents an alternative in cases when the intervention requires live 3D fluoroscopy for guidance. MRI can potentially be of help to physicians who wish to use imaging for assessing ablation success.
Trauma care needs vary widely from patient to patient.

In trauma cases, a patient’s hemodynamic stability determines the next steps. While stable patients first arrive in the emergency room for evaluation, unstable patients are transferred directly to the OR for surgery to stop the bleeding.

Unstable patients introduce serious difficulties.

Performing whole-body CT on hemodynamically unstable patients can raise the chance of survival by up to 33%, according to one study. However, more than half of trauma surgeons refrain from it in cases of severe bleeding because logistical challenges such as inadequate availability of resuscitation equipment and potential time delays due to having to transport the patient render imaging too risky.

Multi-modality imaging right in the OR allows for fast treatment.

With seamless access to multi-modality imaging right in the OR, nexaris Angio-MR-CT offers previously unimaginable opportunities for treating trauma patients. PILOT makes it possible to bring patients directly from the helicopter pad to the OR using the Maquet Transmobil TT-M patient trolley and transferring them onto the surgical table—without any need for lifting. The sliding gantry CT allows you to perform CT imaging for evaluation right away. With the patient already in final position for treatment, the robotic C-arm supports all necessary procedures such as screw placement or embolization to stop the bleeding.

Fast trauma care
Experience the power of high-end imaging

Image guidance helps with intraoperative monitoring and outcome verification. When you combine multiple imaging modalities during therapy, you get all the advantages of each right away without having to make any compromises. Sheer endless potential for innovating procedures awaits you.
Angiography: perform complex procedures

Fluoroscopy
Paired with contrast media, 2D imaging shows vascular structures. You can also use 2D imaging to visualize instruments such as catheters during endovascular procedures, or bones and screws during orthopedic interventions. Robotic C-arms can additionally provide a “roadmap” by fusing a preoperative 3D image with live imaging during the procedure. This allows you to see structures and landmarks without contrast media. Live fluoroscopy provides real-time guidance during treatment. Dedicated acquisition modes that yield higher quality—at higher dose—lend support for diagnostic and documentary purposes.

DSA (Digital Subtraction Angiography)
DSA is a digital technique that removes the static background and makes vessels with contrast more visible. This technique is the standard for clear visualization of important structures.

3D imaging
syngo DynaCT enables rotational acquisition and 3D reconstruction for cross-sectional imaging or volume-rendered techniques. The resulting visualization gives a solid base for planning and assisting procedures. The high spatial resolution displays even the smallest vessels and structures.

Needle guidance
Robotic C-arms from Siemens Healthineers represent the most convenient way to perform instrumented procedures compared to other imaging modalities. The robotic C-arm uses a laser to predefine the exact entryway and optimal entry point for any instrument, from a biopsy needle to a bone screw. Once you have selected your destination and your entry point on the 3D image, the system calculates the path on its own.

Image fusion
Image fusion combines information from multiple modalities to give you a fuller picture of the situation. You can fuse highly detailed with lower MR images with 4D DSA, or preoperative CT images with live interactive images from the angiography system. This helps you make the most out of available information as well as avoid radiation dose and contrast injections necessary for repeat scanning.

X-ray-based imaging enables endovascular treatment without large incisions. Modern systems can also visualize complex pathologies in 3D using a single rotational run of the C-arm.
MR imaging provides highly detailed, non-invasive images of anatomical structures and their surrounding tissue – without any ionizing radiation.

**Soft-tissue imaging**

MRI is the best option when you need optimal soft-tissue contrast. You can use it to visualize areas such as the brain, spine, joints, and abdomen. Beyond high-contrast resolution, MRI can suppress fat and water to make lesions truly stand out. Intraoperative MRI can support assessment of tumor resection completeness.

**Perfusion imaging**

With MRI, you can assess tissue-level perfusion by measuring blood flow either with or without contrast (DSC, DCE, and ASL). Alternatively, you can do so by evaluating blood oxygenation (BOLD). Perfusion information provides valuable diagnostic information to physicians seeking to detect ischemia, demonstrate reperfusion after revascularization, and distinguish between different tumors (e.g., glioblastoma vs. cerebral metastases). Using functional MRI, you can also analyze highly localized brain activity in real-time.

**Diffusion-weighted imaging**

Diffusion-weighted imaging allows you to observe the movement of water molecules within tissue. It can help identify ischemia (both acute and chronic) because the movement is correlated with the amount of water in the interstitial space, which changes depending on the cellularity of the tissue and cell state. You can also use it to distinguish between abscess and necrosis, and to identify different tumor forms based on their cellularity.

**Vascular assessment**

MRI enables 3D angiography without additional contrast. This is particularly valuable for treating patients with renal insufficiency: you can visualize their vascular anatomy and obtain functional information on blood flow in a non-invasive way.
CT imaging: get the full picture fast

CT scanners enable fast imaging with high spatial resolution for 3D reconstruction of bony structures and soft tissue such as the liver, lung tissue, and fat. You can perform scans during multiple contrast phases because of the fast acquisition times, resulting in more information about the vascular anatomy and its function.

High- and low-contrast imaging
The good low-contrast resolution of the CT scanner helps you differentiate tissue. This effect can be further enhanced with contrast media.

Skeletal imaging
The high spatial resolution and 3D capabilities of CT imaging are ideal for diagnosing bone fractures and alterations in structures that are impossible to see using traditional radiography.

Perfusion imaging
CT imaging with contrast media represents a minimally invasive way of visualizing vessels in the whole body. You can differentiate arterial, venous, and portal vessels depending on the phase and even mask out bones. Unlike angiography, CT imaging requires no specific catheterization and provides information about the vessel wall. You can also use 4D CTA runoffs to obtain dynamic information to identify flow problems and distinguish calcium plaques.

CT needle guidance
CT guidance can serve as an alternative to ultrasound imaging when you are positioning needles for a biopsy or drainage. With near-real-time 3D guidance featuring axial, coronal, sagittal, and oblique planes, you can achieve accurate positioning quickly, regardless of anatomical complexity. Automatic needle detection algorithms make needle tracking and navigation easy.

Perfusion imaging
With CT scanners, you can assess tissue-level perfusion by tracking the flow of contrast media within vessels. This information is useful for diagnosing ischemic stroke, differentiating infarct core and penumbra, and visualizing organ perfusion for surgical and embolization procedures. When multiple modality changes are necessary during treatment, the speed of CT imaging – and the ease with which it can be combined with angiography – offers a great advantage.
Customize your nexaris Angio-MR-CT

Through seamless access to multi-modality imaging and hospital-wide patient transfer, the combination of nexaris Angio-MR-CT and PILOT creates an entirely new treatment experience. Let’s combine forces to design the OR that will help you innovate therapy.
Plan your multi-room setup

Siemens Healthineers and Getinge will accompany you along the journey of customizing your multi-modality OR according to your specific needs by combining our shared technical and clinical experience with multi-modality setups. We believe in partnering with our customers as we design and implement our solutions, so we are excited to hear your ideas and help you translate them into practice.

When setting up your nexaris Angio-MR-CT, it is crucial to keep the whole project in mind and at the same time address the particular needs of different stakeholders from both a clinical and a technical point of view. Our goal is to deliver a tailor-made solution that meets your needs and exceeds your expectations.
Robotic Angio system

ARTIS pheno is a unique robotic angiography system that lets you perform complex treatments while reducing complications and improving outcomes. With excellent imaging capabilities and OR integration, it is the gold standard when it comes to individualized preprocedural planning, intraoperative guidance, and immediate assessment.

MRI

nexaris Angio-MR-CT is compatible with MAGNETOM Skyra (3T) and MAGNETOM Aera (1.5T). Offering exceptional image quality, increased flexibility, and superior speed both modalities support MRI for the whole body. The exam software DotGO makes protocol management intuitive, so you can consistently achieve high-quality scan results. The 70-centimeter Open Bore provides ample space for patients and MR-compatible instruments.

CT

With SOMATOM CT Sliding Gantry systems, you get advanced CT imaging on rails. The scanners SOMATOM Edge Plus*** and SOMATOM Definition Edge both combine exceptional scan speed for time-critical cases with advanced imaging capabilities for pre-, intra-, and postoperative functional assessments. With its 80-centimeter bore, SOMATOM Confidence **** was designed to maximize space for patients and instruments during surgical and interventional procedures.

Surgical table system by Getinge

The Micropip Magnus’ adds extraordinary flexibility to your OR. The table system is flexibly configurable based on your diagnostic and therapeutic needs. In combination with the special table top and transfer board, you can access all imaging modalities of nexaris Angio-MR-CT with ease. Even in time-critical situations, the Micropip Magnus gives you the freedom you need to make the best possible decisions for your patients.

Dockable MR table

Combi Dockable Table* enables safe patient transfer from the surgical table to the MRI modality. With embedded body coils and the use of additional flex coils, you can perform whole-body intraoperative MRI at any point during therapy.

Patient transporter by Getinge

No matter whether your patient is located in the ICU or just arrived via helicopter, the height-adjustable Micropip Transmitel TT-M enables you to bring him to the OR and back. Because the patient transporter supports the PILOT transfer board, you can simply slide the patient onto the Micropip Magnus or Combi Dockable Table once you get to the OR – no repositioning or lifting is necessary.
Ultrasound – ACUSON Freestyle

The ACUSON Freestyle ultrasound system sets the pace for modern healthcare. Its advanced technologies, including the industry’s first wireless ultrasound transducers, are designed to streamline operation and sterile field management. Value-based innovations for improving visualization and cable-free scanning are built to deliver new levels of ease and efficiency at your point of care. Deliver the quality and safety your patients deserve with value-based technologies designed to reduce complications and improve infection control.

Advanced system support

Siemens Remote Service (SRS) is a secure data link that connects your medical systems to the service experts in our Customer Care Center. Via SRS, the performance and condition of your equipment can be monitored in real-time. SRS makes a broad range of proactive and interactive services available – including fast error identification, remote repair and software updates, preventive maintenance, and collaboration services.

Additional products and services

Getinge Maquet VARIOP and Integrated Workflow Solutions

Structure and flow are the fundamental elements of a successful hybrid OR. With the Maquet VARIOP modular room system, your Getinge expert can plan and design an intuitive workplace that streamlines workflows. Combined with IT solutions by Getinge that work together to ensure a safer, integrated, and better utilized facility, we are enabling healthcare professionals to focus on delivering the best possible care for patients.

Getinge Solutions for hybrid ORs

From MR-compatible ventilators to tables and everything in between, Getinge has created a product offering for hybrid suites that is second to none. The elements complement each other for seamless interaction and an ergonomic user experience. We go beyond individual products and deliver complete multidisciplinary solutions that suit all professional disciplines within the hybrid OR environment.
Technical specifications

ARTIS pheno
Installation........................................Floor-mounted
C-arm.....................................................6-axes, SID lift, detector + collimator rotation
Detector...............................................30 x 40 with Zen technology, 1,000-micrometer scintillator thickness, 92 fps (residual for 3D)
X-ray tube............................................up to 90 kW at 125 kV (full emitter technology, CLEARpulse)

MAGNETOM Skyra
Magnet..............................................3 T
Field-of-view.......................................50 x 50 x 45 cm³
Bore size.............................................70 cm Open Bore
Gradient power....................................45/200, simultaneous
Coils...................................................Flex 4 Large + Flex 4 Interface, Flex 4 Small + Flex 4 Interface, Body 18, Body 18 Long, Spine 32, Combi Coil Base
Software version.................................syngo MR E11
Patient table......................................Tim Dockable Table + Combi Dockable Table

MAGNETOM Aera
Magnet..............................................1.5 T
Field-of-view.......................................50 x 50 x 45 cm³
Bore size.............................................70 cm Open Bore
Gradient power.....................................33/125 or 45/200, simultaneous
Coils...................................................Flex 4 Large + Flex 4 Interface, Flex 4 Small + Flex 4 Interface, Body 18, Body 18 Long, Spine 32, Combi Coil Base
Software version.................................syngo MR E11
Patient table......................................Tim Dockable Table + Combi Dockable Table

SOMATOM Edge Plus Sliding Gantry
Travel length.........................................12 m
Number of detector rows........................64
Max. slices/rotation..............................128 (acquired slices)/384 (reconstructed slices)
Rotation times.....................................0.28 s, 0.33 s, 0.5 s, 1.0 s
Generator power....................................100 kW
Aperture.............................................78 cm
Tube voltage.........................................70, 80, 90, 100, 120, 140 kV
Clinical options.................................TwinBeam Dual Energy, Adaptor 40 Spire, Adaptor 3D Intervention Suite, iMAR

SOMATOM Definition Edge Sliding Gantry
Travel length.........................................12 m
Number of detector rows........................64
Max. slices/rotation..............................128 (acquired slices)/384 (reconstructed slices)
Rotation times.....................................0.25 s, 0.5 s, 1.0 s
Generator power....................................80 kW (opt. 100 kW)
Aperture.............................................78 cm
Tube voltage.........................................70, 80, 100, 120, 140 kV
Clinical options.................................Adaptor 3D Intervention Suite, iMAR

SOMATOM Confidence Sliding Gantry
Travel length.........................................12 m
Number of detector rows........................32
Max. slices/rotation..............................64 (acquired slices)/192 (reconstructed slices)
Rotation times.....................................0.33 s (opt. 0.3 s)
Generator power....................................80 kW (opt. 100 kW)
Aperture.............................................78 cm
Tube voltage.........................................70, 80, 100, 120, 140 kV
Clinical options.................................Adaptor 3D Intervention Suite, iMAR

nexaris Angio-MR-CT | Technical specification

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<tr>
<th><strong>Combi Dockable Table</strong></th>
<th><strong>Getinge Maquet Magnus 1180.12</strong></th>
<th><strong>Getinge Maquet Transmobil TT-M</strong></th>
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<td>2485 ± 4 mm</td>
<td>2120 mm</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>864 ± 4 mm</td>
<td>821 mm</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>680 + 13 mm up to 1032.5 + 13 mm</td>
<td>721–1043 mm</td>
</tr>
<tr>
<td><strong>Vertical movement</strong></td>
<td>680–1030 ± 13 mm at 60 mm/s</td>
<td>± 15°</td>
</tr>
<tr>
<td><strong>Horizontal movement</strong></td>
<td>max. 2610 mm (Aera)</td>
<td>max. 200 mm/s at max. 2757 mm</td>
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<table>
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<td><strong>Height adjustment</strong></td>
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At Siemens Healthineers, our focus is to help healthcare providers succeed in today’s dynamic environment. Healthcare providers around the world have long relied upon our engineering excellence – leading-edge, high-quality medical technologies across a broad portfolio. Our technologies touch an estimated 5 million patients globally every day. At the same time, they help hospital departments to continuously improve their clinical, operational, and financial outcomes.

We now consolidate this unprecedented volume of data and insights and turn them into pioneering enterprise and digital health services. With these, we maximize opportunities and share risks for the success of your entire health system.

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* The information shown herein refers to products of 3rd party manufacturer’s and thus are in their regulatory responsibility. Please contact the 3rd party manufacturer for further information.

** The products/features (here mentioned) are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed.

*** SOMATOM Edge Plus is pending FDA clearance, and is not yet commercially available in the United States or other countries. Due to regulatory reasons, its future availability cannot be guaranteed.

**** 64-slice configuration
The products/features (here mentioned) are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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