SOMATOM Confidence®
RT Pro Edition

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Radiation therapy in a dynamic healthcare environment

Like many other areas in healthcare, radiation therapy is a dynamic and fast-changing clinical specialty. In recent years, topics such as precision medicine, increasing curative intent, and hypofractionated treatments have become increasingly relevant. In the USA, adoption of stereotactic body radiotherapy (SBRT) has grown significantly over the last few years. And more and more institutions plan to provide stereotactic radiosurgery (SRS) in the future.
At the same time, the cost of therapy and the percentage of patients receiving radiation therapy are continuously rising. All of this drives the need for solutions that improve care, while reducing costs.

Imaging plays a vital role in this – and its importance will steadily grow as treatment delivery techniques continue to advance. It is a key enabler of clinical excellence in RT, both today and into the future, to give you precision as the starting point of treatment.

“...The advances in treatment technology are driving the need for advanced imaging. Imaging can make a difference – not only for you as healthcare provider, but also for your patients. With our solutions, we want to help you be at the forefront of progress in radiation therapy.”

Gabriel Haras, Head of Radiation Oncology, Advanced Therapies

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**Increase in cancer cases and their costs**

- 2010: 13.2m New cancer cases, $290bn
- 2030: 22.6m New cancer cases, $458bn

**Percentage of cancer patients receiving radiation therapy**

- Up to 2/3 of cancer patients receive radiation therapy.
Blaze a new trail in RT

There is a significant market development toward advanced treatment techniques and, simultaneously, more standardized and personalized care. These goals require precision in the entire RT department. For CT in RT, a significant challenge in contributing to this precision lies in fulfilling the needs of two different end users: Radiation oncologists and dosimetrists.

In order to address these needs, Siemens Healthineers developed SOMATOM Confidence® RT Pro. As a dedicated CT scanner for RT, it delivers images that are optimized for both contouring and dose calculation. And it offers a smooth workflow that helps reduce sources of errors and bring together standardization and personalization.
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Your benefits at a glance

SOMATOM Confidence® RT Pro means no more compromise between efficiency and personalization in imaging for RT. Delivering precision for all RT patients, SOMATOM Confidence® RT Pro gives you the tools to reach beyond your current capabilities. Face present and future RT challenges with confidence – whether you want to optimize your current practices or explore new ones.

Blaze a new trail in RT.

Bring together standardization and personalization

SOMATOM Confidence® RT Pro features a unique algorithm called DirectDensity⁴,⁵, which unlocks a wider range of kV settings. Only one calibration curve is needed in the treatment planning system, enabling users to truly personalize images at no cost to workflow.

Pioneer modern treatment preparation

Modern RT treatment preparation with CT requires utmost precision from multiple end users: radiation therapists, dosimetrists, physicists, and oncologists. SOMATOM Confidence® RT Pro optimally supports each of these clinical roles: for confident imaging, contouring, and dose calculation – and a focus on precision along the entire RT workflow.

Boost your workflow

SOMATOM Confidence® RT Pro is designed to both standardize and personalize the RT imaging workflow. With an easy-to-use interface, scan selection, and respiration breathing curve monitoring, the touch panels can improve your workflow and allow you to stay closer to your patients.
Bring together standardization and personalization

SOMATOM Confidence® RT Pro delivers a unique new feature that simplify the current practice of CT calibration and Hounsfield unit (HU) conversion: DirectDensity⁴,⁵.

Calibration curves and standardization
In radiotherapy, the HU values of the CT image need to be converted to electron density or mass density in order to perform dosimetric planning. When CT images are acquired at different kV settings, users need to select the appropriate HU-to-electron density calibration curves in the Treatment Planning System (TPS) when performing dosimetry. To simplify the process, users generally do CT imaging at 120 kV, regardless of patient size or cancer type. This reduces the number of calibration curves down to just one.

Personalized kV settings
Consistently scanning at 120 kV ensures standardization and simplicity for dose calculation. However, it is not ideal for contouring. Applying 120 kV to every examination – whether imaging a child or an obese patient – does not deliver patient-optimized image quality. Because imaging results can vary significantly depending on the kV value applied, the personalization of tube voltage can go a long way in optimizing images for contouring.

Unlock new potential with DirectDensity⁴,⁵
Bringing together standardization and personalization, SOMATOM Confidence® RT Pro introduces DirectDensity⁴,⁵ – an exclusive reconstruction algorithm that generates images representing relative electron density and/or mass density values. Therefore, with DirectDensity⁴,⁵ images of any kV value can be used in the TPS without the need and complexity of several calibration curves.

“The ability to acquire direct electron density images simplifies the current practice by eliminating CT calibration and HU conversion from commissioning and treatment planning, respectively. Furthermore, it unlocks a wider range of tube voltages in CT scanners for better imaging quality while maintaining similar dosimetric accuracy.”

Tianyu Zhao, PhD, Assistant Professor in Radiation Oncology, Washington University School of Medicine, Department of Radiation Oncology, St. Louis, MO, USA
120 kV may not always deliver the optimal image for contouring. Depending on the patient, lower or higher kV values can significantly improve image quality. With DirectDensity, you can personalize CT tube voltage to the value that best fits the patient.

To give you even more options, DirectDensity can be combined with other applications, such as iMAR (iterative Metal Artifact Reduction) to reduce metal artifacts, SAFIRE to reduce noise, and others.

Acoustic neuroma with cardiac pacemaker on SOMATOM Sensation Open

- Tube voltage: 120 kV
- Collimation: 24 x 1.2 mm
- Scan time: 24 s
- CTDI vol: 55.99 mGy
- DLP: 2091.39 mGy*cm

Acoustic neuroma with cardiac pacemaker on SOMATOM Confidence RT Pro with DirectDensity

- Tube voltage: 80 kV
- Collimation: 40 x 0.6 mm
- Scan time: 22 s
- CTDI vol: 22.53 mGy
- DLP: 399.0 mGy*cm

Courtesy of University of Heidelberg, Germany
Brain metastasis on SOMATOM Confidence® RT Pro with DirectDensity

- Tube voltage: 100 kV
- Collimation: 64 x 0.6 mm
- Scan time: 18 s
- Pitch: 0.8

- Scan time: 17 s
- Rotation time: 1.0 s
- Eff. mAs: 539 mAs

Courtesy of MAASTRO Clinic, Maastricht, The Netherlands
Benefits of DirectDensity\textsuperscript{4,5}

By removing calibration and HU conversion from the procedure, DirectDensity\textsuperscript{4,5} simplifies the current practice. At the same time it unlocks a wider range of kV settings for better and more personalized image quality, at the same time supports increased stability of density estimation in regards to geometric variations.

With DirectDensity\textsuperscript{4,5} you can use the full potential of patient-specific CT acquisition – allowing you to adapt tube current and voltage to the patient anatomy.

To optimize CT protocols in busy radiotherapy departments, you can combine DirectDensity\textsuperscript{4,5} with CARE kV\textsuperscript{7} for automatic adjustment of exam-specific kV and scan parameters.

Enabling the use of various kV settings with only one calibration curve, DirectDensity\textsuperscript{4,5} helps to maintain consistency in dose calculation.
With DirectDensity4,5, you can fulfill the need for both standardization and personalization: standardizing best practices in order to deliver effective, safe, and affordable care, while adapting to individual patients or cancer types.

DirectDensity4,5 in a nutshell
DirectDensity4,5 delivers CT values that can be interpreted as showing relative electron density and mass density. This is achieved by combining image-based bone detection with a projection-based material decomposition. The two-material decomposition of water and bone helps to generate synthetic projections of relative electron density and/or mass density. DirectDensity4,5 images are reconstructed from these projections.

For more information, please refer to our white paper “DirectDensity4,5 – Technical principles and implications for radiotherapy.”

It is available for download at siemens-healthineers.com/somatom-confidence-rt-pro
Pioneer modern treatment preparation

SOMATOM Confidence® RT Pro is designed to deliver the precision that is needed for modern treatment preparation, both for confident contouring and dose calculation.

Two different end users
As radiation oncology treatment techniques are advancing, it is crucial for RT departments worldwide to attain the required precision. CT imaging in RT must, of course, contribute to this precision. This is not an easy task, considering that these CT images have to fulfill the needs of two different end users: radiation oncologists and physicists. In other words, CT imaging in RT must enable precision for both contouring and dose calculation.

Optimally engineered for image quality
To address this need, SOMATOM Confidence® RT Pro is optimally balanced for excellent image quality. We found this balance in a bore size of 80 cm and an 80 kW power generator – combined with state-of-the-art technology.

Precision in the image
SOMATOM Confidence® RT Pro includes iMAR for metal artifact reduction, SAFIRE and ADMIRE for reduced noise to aid in better contouring, and HD Field of View Pro for visualization of the human body parts and skin line located outside of the 50 cm standard scan field of view up to the bore size. In addition, it features a newly developed detector for minimized electronic noise and an extended dynamic range. Equipped with these features, SOMATOM Confidence® RT Pro delivers highly precise CT images for confident contouring.

Modern treatment preparation
With SOMATOM Confidence® RT Pro there is no need to compromise between precision in the image and precision in the workflow. Enabling modern treatment preparation both for radiation oncologists and physicists, it therefore paves the way toward advanced treatment techniques – so you are equipped for the latest procedures and future developments.

“Contouring is important because any error will be carried forward through the patient’s treatment plan – and we want to reduce any uncertainty with good image quality.”

Allen Li, PhD, Professor and Chief of Medical Physics
Medical College of Wisconsin, Department of Radiation Oncology, Milwaukee, USA
**Precise reduction of metal artifacts with iMAR⁺**

iMAR⁺ is a metal artifact reduction algorithm based on adaptive sinogram mixing. It delivers reduction of artifacts from metal, even for challenging cases like spine and hip implants, pacemakers, dental fillings, and neuro coils.

**Prostate patient with hip implants**

- Tube voltage: 120 kV
- Collimation: 16x1.2
- Slice Thickness: 2 mm
- Rotation time: 1.0
- Scan time: 23 sec
- SL: 354 mm
- Eff. mAs: 143

**Visualization of applicators in brachytherapy patient**

- Tube voltage: 120 kV
- Collimation: 64 x 0.6 mm
- Scan time: 17 s
- Rotation time: 1.0
- CTDI vol: 24.76 mGy
- DLP: 737.6 mGy·cm

*Courtesy of MAASTRO Clinic, Maastricht, The Netherlands*
Head and neck patient with strong metal artifacts due to dental fillings

Tube voltage: 120 kV
Collimation: 64 x 0.6 mm
Scan time: 14 s
Rotation time: 1.0 s
SL: 3 mm
Eff. mAs: 289 mAs
SOMATOM Confidence® RT Pro allows you to access the world of Dual Energy and improve visualization. The images acquired with two photon spectra can be manipulated for various purposes, such as reducing artifacts or better characterizing different tissues.

**Brain cancer**
Eliminate guesswork in target delineation with Dual Energy Monoenergetic Plus low keV imaging

- Tube voltage: 80/140 kV
- Collimation: 64 x 0.6 mm
- Rotation time: 0.5 s

**Head and neck cancer: Tumor enhancement**
Dual Energy Monoenergetic Plus low keV imaging can potentially reduce variations in target delineation independent of the operator

- Tube voltage: 80/140 kV
- Collimation: 64 x 0.6 mm
- Rotation time: 0.5 s
Addressing your challenges in Particle Therapy
Positively impact treatment planning in particle therapy by using DirectSPR\textsuperscript{4,12} making Stopping Power images directly available for dose calculation.

- Enables accurate and automated SPR calculation
- Automatically takes into account patient diameter variation in $z$-direction to eliminate the need for different HLUTS.
- Differentiate the SPR value of materials that have the same CT value in single energy images.
- Generates CT DICOM modality images so that they can be exported into a TPS.

SOMATOM Confidence\textsuperscript{®} RT Pro
Dual Spiral Dual Energy acquisition

Dual Energy data → SPR image → TPS
dose calculation

syngo.via
syngo.CT DE DirectSPR
How it works

Take a closer look at the features that enable precise treatment preparation.

Redefine image quality with the new Stellar RT detector
SOMATOM Confidence® RT Pro redefines image quality with the new Stellar RT detector, a dedicated 2 cm version of Siemens Healthineers’ first fully integrated Stellar detector with TrueSignal and HiDynamics technologies. Electronic components such as microchips, conductors, etc., are integrated directly in the photodiode. This reduces electronic noise coming from detector elements and thus significantly improves the signal-to-noise ratio (SNR) for optimized dose efficiency and image quality.

Improve visualization with HD FoV
Designed to enable visualization of the human body parts and skin line located outside of the 50 cm standard scan field of view up to the bore size, based on the algorithmic complement of missing detector data outside of the 50cm standard scan FoV.

Reduce noise and improve resolution with SAFIRE and ADMIRE
SAFIRE iterative reconstruction brings major benefits to image quality, particularly in challenging situations such as 4D respiratory-gated studies or large-patient studies. In addition, SAFIRE preserves HU accuracy, linearity, and spatial resolution, leading to superior images for accurate treatment planning. ADMIRE – our most advanced iterative reconstruction technique – takes iterative reconstruction for RT even one step further. Studies reconstructed with ADMIRE show higher resolution at organ borders and improved delineation of edges.
Comprehensive tumor motion management
SOMATOM Confidence® RT Pro provides a full-fledged motion management solution for both retro- and prospective gating, and includes the option to connect different external gating devices. Thanks to FAST 4D, our 4D-guided workflow brings efficiency to RT routines by automatically setting the optimal scan parameters based on the patient’s breathing cycle. In addition, with DirectBreathhold, the CT acquisition is automatically triggered based on the patient’s respiratory signal which reduces user interaction and facilitates DIBH acquisition at the CT scanner.

Managing motion is key to personalizing treatments.
In order to minimize toxicity to healthy tissue, it is crucial to target the tumor accurately. syngo.via RT Image Suite opens the door for new treatment strategies with Mid-Ventilation. Comprehensive treatment decisions thanks to quantitative assessment of 3D tumor trajectory and amplitude as well as semiautomatic calculation of the mid-ventilation phase.

Courtesy of MAASTRO clinic, Maastricht, Netherlands

Secure your investment with 64 slices
For even more accuracy, SOMATOM Confidence® RT Pro can be field-upgraded to 64 slices. This gives you overlapping slices for high spatial resolution, even off-center and independent of pitch. With 0.3 s rotation speed and a 100 kW generator, SOMATOM Confidence® RT Pro is not only future-ready, it can also be used as a backup scanner for radiology.
Boost your workflow

SOMATOM Confidence® RT Pro is designed for efficiency and error avoidance to advance precision in your RT workflow.

Two important success factors
Like other clinical specialties, the radiation therapy community strives for a middle ground between improving efficiency and increasing patient satisfaction. Cost pressure, competitive pressure, and better informed patients make efficient operations and satisfied patients crucial for an RT department’s success. For many users, however, these two goals seem mutually exclusive – but they don’t have to be.

Optimized workflow
Designed for precision throughout the RT workflow, SOMATOM Confidence® RT Pro reduces unnecessary workflow steps and potential sources of error. Its technology streamlines your operations – for example, by complementing your RT CT with the syngo.via RT Image Suite 4D contouring with Direct4D or the transfer of coordinates to compatible LAP laser systems with Direct Laser Steering 4.

Similarly, patient positioning and acquisition procedures are made easier and more efficient thanks to touch panels and an all-in-one workplace. At the same time, collaboration, software access, and data interpretation are facilitated with teamplay 4, 15 and the syngo.via server-client architecture.

Don’t compromise on quality
An efficient and less error-prone workflow is an important factor in increasing precision in CT images for RT. With SOMATOM Confidence® RT Pro there is no need to compromise between efficiency and patient satisfaction. Built to boost your workflow, SOMATOM Confidence® RT Pro advances efficient quality care – without compromising on individualization.

“Radiation therapy is a long and complicated process; every step in the process is a potential source of error.”

Christopher F. Njeh, Radiation Physicist, Community Medical Centers, Fresno, CA, US
How it works

Find out how SOMATOM Confidence® RT Pro reduces potential sources of error and unnecessary steps, and makes processes more efficient – to boost your workflow.

Reduce unnecessary workflow steps with *syngo*.via RT Image Suite⁴
*syngo*.via RT Image Suite⁴ is a user-friendly virtual simulation software that makes simulation, image assessment, beam placement, and contouring easier and more integrated. It simplifies and standardizes your daily tasks. For example, Direct Laser Steering⁴ helps you reduce unnecessary workflow steps by transferring coordinates directly to compatible LAP laser systems with no need to access an additional workstation. *syngo*.via RT Image Suite optimizes your clinical operations by removing manual computation of the middle slice based on autocontouring with automated isocentering for breast.

Simplified organs-at-risk contouring with AutoContouring triggered at the scanner
The scanner automatically selects the right structure-set template and starts AutoContouring in *syngo*.via⁴ RT Image Suite⁴. Your structure-set template and AutoContouring are therefore usually ready before you arrive, giving you a consistent starting point and making AutoContouring part of the standard acquisition task. AI assisted technology gives you a consistent starting point and making AutoContouring part of the standard acquisition task regardless of the operator.

Streamlined 4D workflow with FAST 4D¹¹
*syngo*.via RT Image Suite⁴ allows you to perform parallel contouring on multiple datasets. It also offers 4D data management with automatic phase splitting, tMinIP, tMIP, and AverageCT generation. FAST 4D¹¹ allows guided 4D workflows and automatically adjusts scan parameters according to breathing rate by selecting one of the three respiratory protocols. It brings speed and efficiency to daily RTP routines. *syngo*.via RT Image Suite⁴ also offers semiautomatic contour propagation over 4D CT breathing phases⁴ and ITV generation.

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The first step toward advanced patient positioning with touch panels

For convenient and efficient patient positioning, SOMATOM Confidence® RT Pro comes with touch panels. Benefit from efficient workflows enabling one click table movement between external RT Laser and internal CT Laser. SOMATOM Confidence® RT Pro offers the flexibility to choose automated table zeroing at the CT laser or at the RT laser with one click. With easy-to-use interface, scan selection, and respiration breathing curve monitoring, the integrated touch panels enable a patient centric workflow. For greater flexibility rear panels are available as an option.

Connect, compare, collaborate with teamplay

teamplay is a cloud-based network to compare and interpret data – and to connect with other healthcare professionals. It is a secure, smart, and simple way to manage protocols, monitor radiation dose from imaging data, optimize your output, and reduce overhead.

TG-66-compliant RT table

Our TG-66-compliant table helps provide accurate patient positioning and reduces the potential for error in your treatment plan. Furthermore, especially designed for radiotherapy use, the multipurpose patient table accommodates large patients up to 307 kg/676 lbs with a scan range of 165 cm. It is compatible with third-party tabletops or overlays, including Elekta’s iBeam evo couchtop, CIVCO’s Universal Couchtop (UCT), Qfix Quantum/kVue, and the Qfix Encompass™ SRS immobilization system.
# Technical specifications

## Key data

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gantry</strong></td>
<td>80 cm</td>
</tr>
<tr>
<td><strong>Slices</strong></td>
<td>20 or 64</td>
</tr>
<tr>
<td><strong>Scan field</strong></td>
<td>5-50 cm</td>
</tr>
<tr>
<td><strong>Reconstructed FoV</strong></td>
<td>5-50 cm</td>
</tr>
<tr>
<td></td>
<td>5-80 cm with HD FoV&lt;sup&gt;±&lt;/sup&gt;</td>
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<tr>
<td><strong>Rotation time</strong></td>
<td>0.31, 0.33, 0.5 1s/0.75s – 60s (± 10%)</td>
</tr>
<tr>
<td><strong>Tube</strong></td>
<td>STRATON MX P</td>
</tr>
<tr>
<td></td>
<td>High-performance CT X-ray tube</td>
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<tr>
<td><strong>Tube current range</strong></td>
<td>20-666 mA</td>
</tr>
<tr>
<td><strong>Tube voltage</strong></td>
<td>70, 80, 100, 120, 140 kV</td>
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<tr>
<td><strong>Max. power</strong></td>
<td>80, 100&lt;sup&gt;±&lt;/sup&gt; kW</td>
</tr>
<tr>
<td><strong>Max. equivalent power generator (with SAFIRE)</strong></td>
<td>163 kW</td>
</tr>
<tr>
<td><strong>Dimensions (gantry, H-W-D)</strong></td>
<td>198 x 238 x 93.5 cm</td>
</tr>
<tr>
<td></td>
<td>(78 x 93.7 x 36.8 in)</td>
</tr>
<tr>
<td><strong>Weight (gantry)</strong></td>
<td>2,300 kg (5,070 lbs)</td>
</tr>
<tr>
<td><strong>Max. table load</strong></td>
<td>212 kg / 467 lbs</td>
</tr>
<tr>
<td></td>
<td>(307 kg / 676 lbs with multipurpose table and high-Capacity tabletop)</td>
</tr>
</tbody>
</table>
Additional products and services

Choose from a variety of additional options and services that give you extra flexibility – tailored to your specific needs.

**Smooth integration in your RT department with the all-in-one workplace**
In order to make acquisition procedures more efficient, SOMATOM Confidence® RT Pro offers an all-in-one workplace. Perform scanning, simulation, image assessment, and contouring in one place.

**Greater confidence with more protection**
Protecting medical equipment is a key issue for us. We have established a culture of cybersecurity awareness to support our work on developing secure equipment and services based on Microsoft Windows 10. Siemens Healthineers IT Security builds on our extensive experience in developing solutions for strengthening and defending your CT system and IT infrastructure.16

**Go one step further in imaging with a sliding-gantry solution**
SOMATOM Confidence® RT Pro is also available on rails. The sliding-gantry solution is especially beneficial for brachytherapy. It reduces overall procedure time and offers a rapid workflow by avoiding the need for patient transfer and the risk of applicator movement. In addition, the sliding-gantry solution can be used for proton therapy15, providing high-quality CT imaging, including 4D, directly in the bunker.
System reliability – through powerful service
Our comprehensive service offering comprises real-time monitoring, preventive maintenance, hardware and software services, as well as application support and training – to enable optimized system availability, performance, and workflow efficiency.

Siemens and Varian partnership: Two leaders at your side. EnVision better cancer care.
The combination of Siemens’ imaging excellence and Varian’s powerful delivery systems expands the possibilities for image-guided radiotherapy and radiosurgery. Our complementary product portfolio enables RT experts to take advantage of end-to-end workflows and compatible products such as Varian RGSC – also available with SOMATOM Confidence® RT Pro. Together we drive and enable participation in innovations such as HD radiotherapy to EnVision better cancer care.
Why Siemens Healthineers?

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

An estimated 5 million patients globally everyday benefit 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.
DirectDensity reconstruction is designed for use in Radiation Therapy Planning (RTP) only. DirectDensity reconstruction is not intended to be used for diagnostic imaging.

The pacemaker precluded the patient from undergoing an MRI.

Standard with DirectDensity

The image quality for the area outside the 50cm standard scan field of view does not meet the image quality of the area inside the 50cm standard scan field of view. Image artefacts may appear, depending on the patient setup and anatomy scanned.

In clinical practice, the use of SAFIRE and ADMIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice.

The following test method was used to determine a 54–60% dose reduction: Noise, CT numbers, homogeneity, low-contrast resolution, and high-contrast resolution were assessed in a Gammex 438 phantom. In this test, low-dose data reconstructed with SAFIRE showed the same image quality as full-dose data. Data on file.

Optional, Requires respiratory monitoring device with online mode curve at the CT (Varian RGSC or ANZAI belt)

Requires a gating device that can trigger the CT scanner (such as Anzai/RGSC).


syngo via can be used as a stand-alone device or together with a variety of syngo via-based software options, which are medical devices in their own right.

Please check if teamplay is available in your country.

This information contains general descriptions of the technical options available and may not always apply in individual cases.

Requires the “in-room PT usage” option. The CT gantry must be powered off while the particle therapy treatment beam is on.
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Availability and packaging may vary by country and is subject to change without prior notice. Some or all of the features and products described herein may not be available in the United States.

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features that do not always have to be present in individual cases.

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