SOMATOM On.site Bringing critical care imaging to your patient

siemens-healthineers.com/somatom-onsite







Patients with critical head conditions require constant supervision



Time is of essence

Patients suffering from acute and critical head conditions face a high risk of sudden health status deterioration, requiring fast evaluation.¹



Transports can worsen conditions

For 1 in 4 patients, transport increases the risk of adverse events. Existing health conditions may worsen due to the delicate state of critical head cases in the ICU.¹

The impact is resounding

Not just patients feel the impact of these challenges: staff who treat them are affected as well. This holds true for the entire workflow:

Technologists

Patients with acute and critical conditions tie up stationary CT scanners in the radiology department for at least twice as long as would be the case for noncritical or acute patients.

ICU Nurses

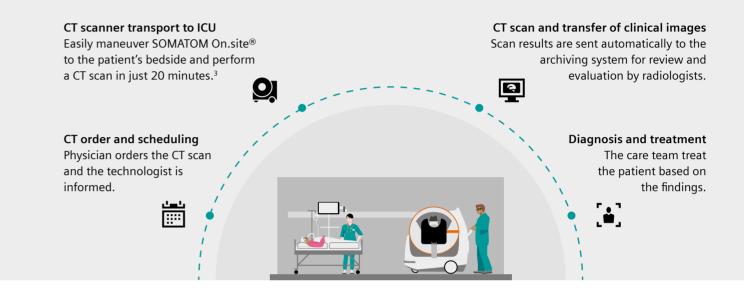
With at least two accompanying nurses, critical care transports take time and resources away from the ICU. In addition, by 2030, it is

estimated that there will be a shortage of 13 million nursing staff.² This results in overburdened personnel.

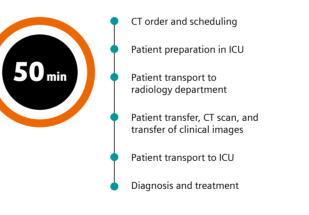
Radiologists

Fast scanning is critical due to sudden patient health status deterioration, but is not always easy to do. Finding and deciding upon the correct treatment promptly leads to better patient outcomes.

Streamline your critical care patient workflow today



Traditional workflow in hospital³ Workflow with portable CT scanner³



On scene

Quickly move SOMATOM On.site by using the front-facing camera and motorized trolley with two speeds to the point of care. These features let you maneuver your way to the patient with ease.

On care

Scanning your critical care patient with SOMATOM On.site gives nurses more time to focus on core tasks in the ICU. This avoids preparation work and the long, often strenuous trips to the radiology department.

CT order and scheduling

CT scanner transport to ICU

CT scan and transfer of clinical images

Diagnosis and treatment

On time

The double scanning time allotment and the often accompanying delays associated with critical head patients can leave your device idle. SOMATOM On site brings the scanner to your patient, allowing you to streamline your stationary fleet.



Driving to the point of care

SOMATOM On.site brings critical care imaging directly to your patient's bedside. This means fewer patient transports, resulting in more staff remaining in the ICU. Being able to focus on their core tasks translates into a better nurse-to-patient-ratio.

Bring head CT imaging to your patient

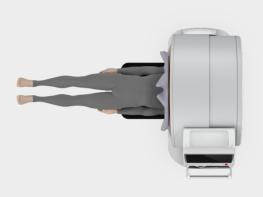
SOMATOM On.site is designed to bring head CT imaging to the point of care. With the **unique telescopic gantry design**, **integrated positioning accessories**, and **proven SOMATOM technologies**, you can achieve fast and reliable answers for critical care patients.

SIEMENS . Hoalthingers 06 SOMATOM On.site 07 02

01 Tel

Telescopic gantry

The first-of-its-kind telescopic gantry design allows for easier patient positioning, minimizes motion artifacts, and provides radiation safety for staff and neighboring patients.



Driveability

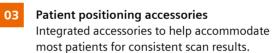
02

04

05

07

Easily maneuver the scanner throughout the hospital using the front-facing camera, two driving speeds, brake, and ergonomic handle.



CARE 2D Camera & bore lighting See the patient even when the radiation shield covers are in place.

myExam Companion powered by GO technologies Get reliable scan results regardless of user's

O6 Self-shielding radiation system Protect staff as well as neighboring patients from scatter radiation during scanning.

experience levels with intelligent guidance.

SOMATOM technologies Stellar detector, iMAR, and ADMIRE[®] allow you to get sharp images.



Enable easy positioning

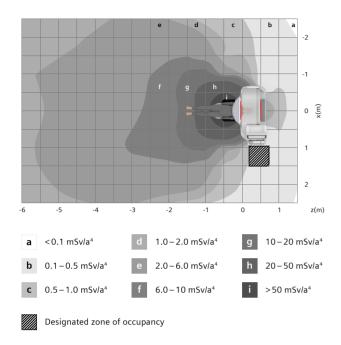
With its unique telescopic gantry and adaptable positioning accessories, SOMATOM On.site provides ample space when positioning patients.



Get reliable image quality

Thanks to the stationary trolley and telescoping gantry, motion artifacts can be reduced during image acquisition regardless of where you scan.

A self-shielding radiation system



One of the main challenges associated with portable scanning is the safety of staff and neighboring patients when it comes to scatter radiation. This is why SOMATOM On.site features a holistic radiation safety concept integrated in the telescopic gantry.

It consists of:

- Front and back radiation covers
- Lead-lined telescopic gantry
- Designated zone of occupancy for the operator during the scan
- CARE 2D Camera to keep your patient in view even with the front radiation cover closed

Simple steps suitable for crosstrained staff

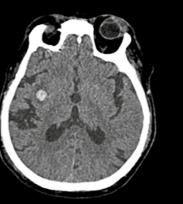


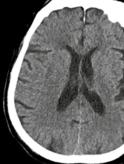
Built into the SOMATOM On.site is myExam Companion, an intelligent software that works with the user to get the best scan results. myExam Cockpit helps you standardize the protocols you use, and myExam Compass provides guidance during the examination.

In addition, SOMATOM On.site features workflow guidance provided by our proven GO technologies. Scan&GO enables techs to control the entire scan process via the integrated Touch UI, staying right next to the patient at all times. After the scan, the users can check the images (Check&GO) before the automated reconstruction tasks. With Recon&GO, automated postprocessing and upload to PACS is performed without any user interaction.

Establishing a new standard of head CT imaging in the ICU

Follow-up imaging after cerebral bleeding

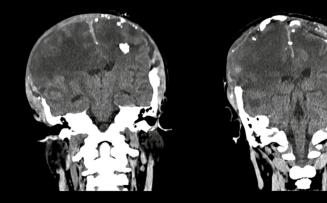




Conclusion

- Faster access to neuro CT imaging
- Portable head CT enables treatment decisions based on imaging at the point of care

Follow-up of severe brain injury



Technical specifications

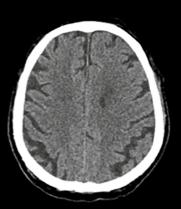
Key data

Scanner type	Portable head CT scanner	kV steps	80, 120 kV
Detectors	2.4 cm Stellar detector	Detector row thickness	0.75 mm
Iterative Reconstruction	ADMIRE [®]	Gantry opening	35 cm
Metal artifact reduction	iMAR	Slice acquisition	32

Conclusion

- Critically ill patient could stay connected to stationary ICU monitoring equipment during the CT scan
- Reduction of complications associated with complex patient transportation from the ICU to the radiology department





120 kVp; CTDI_{vol}: 44.1 mGy; real DLP: 1058 mGy*cm; pitch 0.55; rotation 1/s





120 kVp; CTDI_{vol}: 44.1 mGy; real DLP: 1058 mGy*cm; pitch 0.55; rotation 1/s

SOMATOM On.site is not commercially available in all countries. Due to regulatory reasons, its future availability cannot be guaranteed.

On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products/services/ features included in this brochure are available through the Siemens Healthineers sales organization worldwide. Availability and packaging may vary by country and are subject to change without prior notice.

The information in this document contains general descriptions of the technical options available and may not always apply in individual cases. Siemens Healthineers reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local Siemens Healthineers sales representative for the most current information.

In the interest of complying with legal requirements concerning the environmental compatibility of our products (protection of natural resources and waste conservation), we may recycle certain components where legally permissible. For recycled components we use the same extensive quality assurance measures as for factorynew components.

Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

- ¹ Parmentier-Decrucq E, et al. Adverse events during intrahospital transport of critically ill patients: incidence and risk factors. Ann Intensive Care. 2013; 3(1):10.
- ² International Council of Nurses Policy Brief: The global nursing shortage and nurse retention. 2021
- ³ Rumboldt Z, et al. Review of portable CT with assessment of a dedicated head CT scanner. AJNR Am J Neuroradiol. 2009; 30(9): 1630–6.
- ⁴ A typical clinical operation, relevant for personal dose, is 5 examinations per day, 5 operation days per week, and 50 operation weeks per year.

Siemens Healthineers Headquarters Siemens Healthineers AG Siemensstr. 3 91301 Forchheim, Germany Phone: +49 9191 18-0 siemens-healthineers.com