



Clinica RAPITEST – Somatom go.Up



Configuratia echipamentului – Somatom go.Up

1. SOMATOM go.Up

Cu un detector larg și o tehnologie premium, SOMATOM go.Up oferă rezultate nevăzute anterior în sisteme echivalente și ajută clienții să-și extindă afacerile.



Specificatii Tehnice

Slice-uri 32 (64 cu IVR)

Tub RX 3.5 MHU (8.75 MHU echivalent cu SAFIRE)

Putere 32 kW (80 kW echivalent cu SAFIRE)

Tensiune anodica 80, 110,130, Sn 110, Sn 130 kV

mA 13-240 mA, pana la 400 mA@80 kV cu optiunea High Power 80 (600 mA echivalent cu SAFIRE, 1000 mA echivalent cu SAFIRE si cu optiunea High Power 80).

Latime detector 2.2 cm (32*0.7 mm)

Capacitate masa . . . 227 kg

Tilt mecanic: 30⁰, bidirectional

Viteza și precizie pentru imagistica neurovasculara

Tehnologii cu doze reduse pentru screeningul pulmonar și al colonului

Capabil să efectueze examene de scor de calciu și multe altele

Moduri de achiziție secvențiale:

32x0.7mm

Sn 32x0.7mm (Tin Filter)

2x5mm

1x10mm

1x5mm

Mod de achizitie spiral:

32x0.7mm

Sn 32x0.7mm (Tin Filter)

2. Pachet de inalta performanta

Include: FAST AWP, Ultra-FAST IRS, High Power 80, High Speed 0.8s, iMAR, Inline Spine Ranges, Inline Rib Ranges, syngo.CT CaScoring, Physiological Measurement Module, ECG cable, CARE Contrast II.



3. Masa pacient

227 Kg (Vario 1)



4. UPS

5. Scan&GO wireless

Include Scan&GO Tableta si telecomnda pentru controlul scanarilor.



6. Pachet aplicatii software de baza

Platforma SOMATOM go. oferă un set holistic de soluții intuitive care se adresează fluxului de lucru nu numai la scanner, ci și dincolo.

Technologii GO

Scan&GO

Check&GO

Recon&GO

CT View&GO

Extensie vasculara

Etichetare coana

Vizualizare Endoscopica

Diametru / arieWHO

ROI HU Threshold

SureView™ – Sistem de reconstructie multi-slice

Solutii FAST CARE Integrate:

FAST Planning

FAST ROI

SAFIRE (CARE Application)

CARE Dose 4D

CARE Filter

Protocoale Pediatrica



CARE Topo
CARE Bolus
CARE Profile
Topogram
CARE Child
HD FoV
Workstream4D
IVR (Interleaved Volume Reconstruction)
X-CARE
CARE i-Tilt
Adaptive Signal Boost
DoseMAP
syngo System Security

7. Birou PC

8. Hardware Statie de lucru

Hewlett Packard server
Windows Server 2016 Standard
Processor: 1x CPU
Data Disk: RAID Level 5
1300GB
CD/DVD-RW
NVIDIA GPU
Mouse

9. Monitor EIZO MX242W col. 2.3MP – 2 monitoare

EIZO MX 242W color LCD monitor 1920 x 1200 pixels.
24.1”
350 cd/m²
Contrast: 1000:1

10. Software syngo.via CT VB60

syngo.via CT Workplace este proiectat pentru a fi utilizat cu scannerul SOMATOM CT.
Acest software de vizualizare 3D este soluția perfectă pentru o gamă largă de cazuri - de la rutină la provocare.
syngo.via CT Workplace este disponibil ca o configurație a postului de lucru un utilizator.
syngo.via CT Workplace oferă o interfață grafică de utilizator pentru pregătirea și citirea imaginilor din Tomografia computerizată

11. syngo.via CTWP Starter Engine

The syngo.via CTWP Starter Engine includes the most frequently used applications in routine for syngo.via CTWP.

The **syngo.via CTWP Starter Engine** permits access for one user for the following software modules:

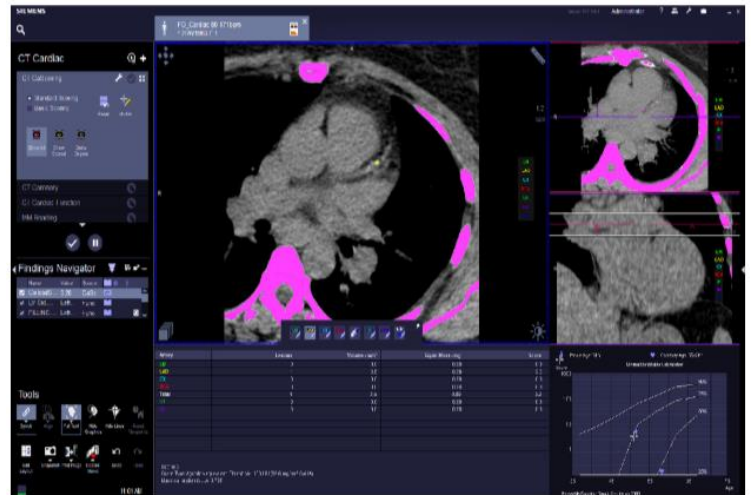
- syngo.CT CaScoring
- syngo.CT Vascular Analysis

- syngo.CT Neuro DSA
- syngo.CT Colonography

Software Modules

- **syngo.CT CaScoring** is a workflow step that quantifies coronary calcifications (mass, volume, Agatston equivalent) and calculates the patients coronary age. During the evaluation, the patient's score is compared to the scores of a healthy reference group. Implemented large reference databases are:

- MESA, McClelland, Circulation, 2006 (USA, 6,110 patients). Data support for different ethnic groups: Caucasian, Asian, Hispanic, etc.
- Hoff, Am J Cardiol, 2001 (USA, 35,246 patients)
- Rumberger, Mayo Clinic, Proc, 1999 (USA, 1,898 patients)
- HNR, Schmermund, Atheroscl., 2006 (Germany, 4,275 patients)
- Raggi, Circulation, 2000 (USA, 9,730 patients)



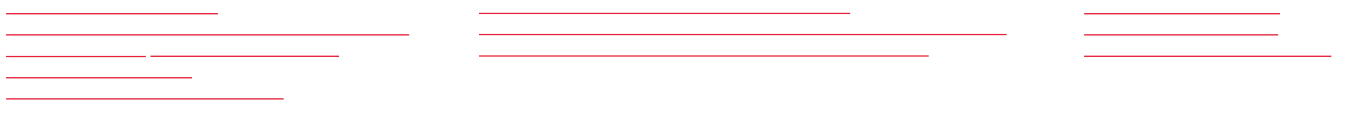
- **syngo.CT Vascular Analysis** allows to automatically evaluate and quantify angiography images of the general vessels. It provides a vascular-specific set of auto-preprocessing steps and display functions. These functions make it possible that the case is immediately ready for review when opened, thus saving many manual workflow steps to bring more efficiency into daily practice.

- **The VesselSURF tool guarantees ultra-fast 3D vessel assessment in axial slices even without center lines or in totally occluded vessels, while displaying longitudinal/perpendicular cross sections of the vessel in addition to the 2D images in real time**
- **Auto pre-processing steps, like auto bone and table removal, provide an immediate vascular-only view**
- **The 2-click center line creation allows for a quick and robust vessel segmentation and CPR display**
- **Vessel analysis tools provide all relevant information, e.g. stenosis diameter and area, curved length, profile curve, minimum lumen identification, etc.**
- **Measurement and reporting tools for therapy support, such as stent planning in case of AAA**

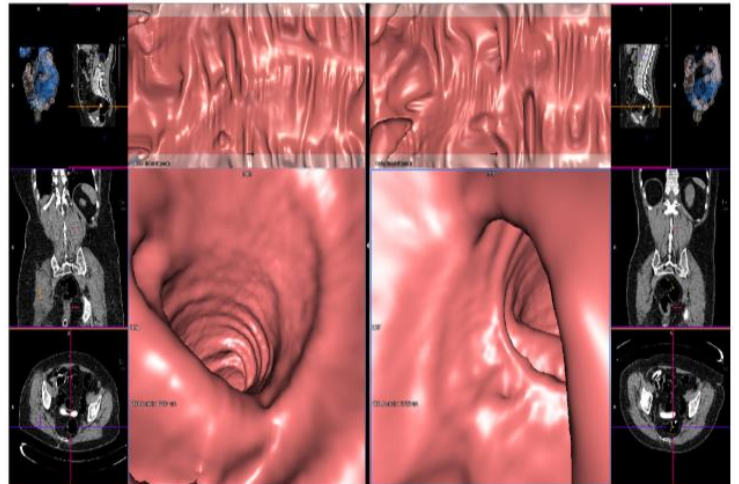


- **Bone & Vessel Isolation mode for selective highlighting of high-contrast structures, for example to bring out the bone in trauma cases involving fractures of the femur or hip, or for single-click plaster cast removal**
- **Anatomy Visualizer for 3D layered visualization of multiple anatomical structures**
- **Automated centerline definition with less editing for challenging evaluations on long and/or partially occluded vessels**
- **Extend centerlines in CPR view**
- **Straightened MPR view for complete vessel overview, easy stenosis identification, and quick measurements**

- **syngo.CT Colonography** combines the advantages of 2D and 3D reading strategies. Flexible screen layouts and dual



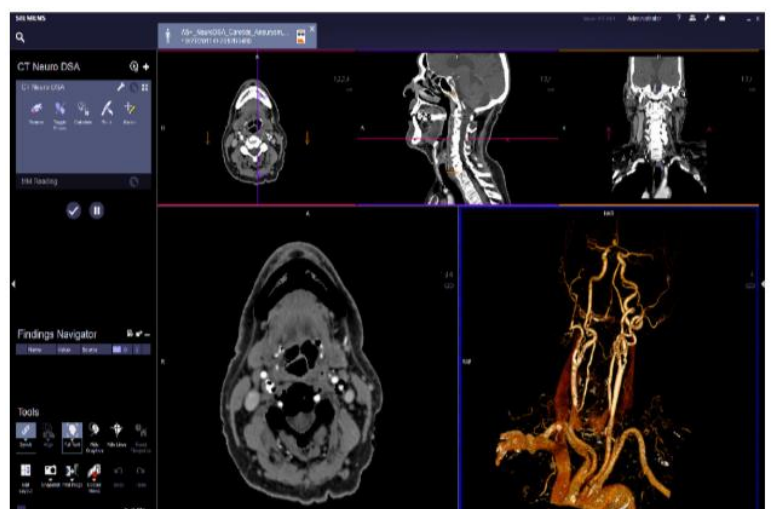
monitor support permit instant switching between the 3D endoscopic view and the corresponding 2D images. Even more, the reading physician can choose to perform a synchronized flight in both prone and supine positions. The registered navigation offers both endoscopic views in a side-by-side display on up to two monitors for an easier differentiation of potential lesions. The Findings Navigator automatically collects and stores all the potential lesions when marked. In detail the application provides:



- Non-invasive, virtual colonography based on low-dose, high-resolution CT scans
- Synchronized real-time display and analysis of two scans (prone and supine) on up to two monitors
- Support of dual monitor setup
- Synchronized update of endoscopic, axial and global views
- Real-time virtual endoscopic viewing in premium image quality, using high performance rendering techniques
- Fully automated flight path finding
- Automated tagging of the small bowel for removal from examination
- Solid or barium enema-type display of entire colon for easy overview of path
- Overview segment containing flight path and marked pathologic findings
- Semi-automated polyp measurement in 3D endoscopic view
- Visualization of stool tagging
- A panoramic endoscopic view of the colon allows the user to visualize the colon in both directions, enabling visualization of the area behind folds while flying in one direction.
- The Findings Navigator collects, stores, and exports findings of potential lesions.
- Findings can be reviewed from the Findings Navigator and reported easily according to C-RADS standard.

- **syngo.CT Neuro DSA** (Digital Subtraction Angiography) allows for bone-free evaluation of the neuro vasculature. Main indications are the diagnostic evaluating of neurovascular disease (e.g. aneurysms & stenosis) and planning interventional treatment (e.g. coiling and stenting).

Fast and easy neurovascular evaluation is offered via a client-server based solution. The guided workflow supports the evaluation of complex intracranial vascular structures (e.g. AVM) and delineation of aneurysms, stenosis and other vascular diseases. CT DSA data are immediately pre-processed and ready for evaluation. It automatically removes bones of the head and neck, subtracting low-dose non-contrast head-CT scan from contrast-enhanced CTA.



In detail the application provides:

- The CT Neurovascular workflow allows for comprehensive vessel analysis of head and neck facilitated by Curved Planar Reformations (CPR) and stenosis measurement tools.

- Automated motion correction for enhanced movement compensation, e.g. mandible movements
- Best plane functionality automatically orients combined segments to a selected line.
- One click aneurysm evaluation allows immediate evaluation of findings in all segments, MPR and VRT segments will be updated automatically.



- Findings and measurements are automatically tracked and listed in the Findings Navigator
- Multimodality ready: Multi-modality results can be displayed for comparison
- Connectivity to RIS/PACS and modalities, regardless of the vendor

12. Injector subsrtanta de contrast

13. Imprimanta filme radiologice

