syngo Opdima

Efficiency in digital biopsy and spot imaging

Technical Data

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syngo Opdima

Efficiency in digital biopsy and spot imaging

syngo Opdima is designed to perform quick and efficient stereotactic needle and core biopsies as well as localization procedures.

syngo Opdima is also an effective digital spot imager, offering exceptional image quality and enhanced efficiency in mammography examinations.

Optimized digital workflow

syngo Opdima displays stereo images in near-real time at the workstation. *syngo* Opdima's software provides a comprehensive set of functions covering virtually all operations necessary to complete an examination.
Through DICOM compatibility, patient data is readily stored in existing digital clinical archives of virtually any scale or printed as needed.
Patient registration, evaluation, post-processing, and archiving can be performed seamlessly. In addition, biopsy targeting takes place online, allowing automatic coordinate calculation.
The benefits are shorter examination times, higher throughput, and less discomfort for your patients.

High resolution

syngo Opdima provides the highest digital resolution in the industry with up to 20 lp/mm.

Completely optimized digital workflow with *syngo* Opdima

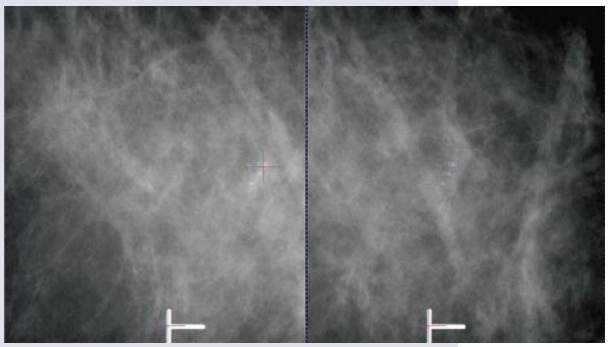
– Demographic data is gathered from the RIS via DICOM Modality Worklist or entered manually.
– After patient positioning, the exposure is released at the control unit while the generated images are displayed at the AWS.
– The patient study can be stored in the clinical archive and/or documented on film or paper.

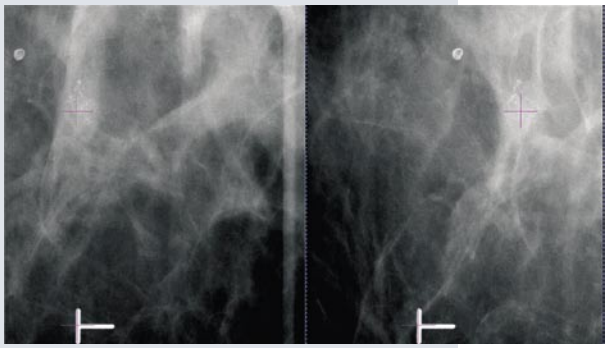
Versatile and cost effective

syngo Opdima is optionally available and compatible with most Siemens MAMMOMAT mammography systems:

- MAMMOMAT *Novation*[DR] – Stereotactic biopsy and digital spot imaging
- MAMMOMAT 3000 Nova – Stereotactic biopsy and digital spot imaging
- MAMMOMAT 1000 – Digital spot imaging only

Used together with the MAMMOMAT, *syngo* Opdima forms a versatile, multi-tasking system for image acquisition, image processing and digital biopsy. Dose parameters are automatically transferred from the MAMMOMAT to *syngo* Opdima.
All dose values are visible and printed with the image.



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Digital detector cassette	
Digital detector cassette fits into all 18 cm x 24 cm (7" x 9.5") object tables	
Detector resolution	
Normal	10 lp/mm, 1024 x 1792 pixels
High	20 lp/mm, 2048 x 3548 pixels
Pixel depth	12 bits
Field of view	49 mm x 85 mm (1.9" x 3.3")
Time to image after acquisition	
Normal resolution	5 s
High resolution	20 s

Acquisition Workstation (AWS)	
Image acquisition system	PC with Intel-compatible CPU, 3.2 GHz, 2 GB RAM; Interface cards for the X-ray system; Windows XP operating system, *syngo*-based applications
Image processing	Contrast/brightness, edge enhancement, electronic shuttering, fixed zoom, interactive zoom and panning, split screen (4/9/16 on 1), gray scale inversion, angle measurement
Text/graphic functions	Marking, image annotation and comment, image orientation label
Integrated system operation	Preselection of patient orientation for automatic image orientation; User programs with customized predefined parameter sets
Patient directory	Input of patient data (e.g. patient name, patient ID, date of birth), patient search; Input via keyboard, DICOM Modality Worklist[1)]

DICOM 3.0 functions	
DICOM Basic	DICOM Storage (Send/Receive)
	DICOM interface for image data communication in a clinical network (PACS) based on the DICOM 3.0 standard
	Sending and receiving of images
	DICOM Query/Retrieve
	Retrieval of studies from a digital archive, a workstation or other imaging systems
	DICOM Storage Commitment
	Archiving confirmation from the image archive

[1)] Requires an information system that can provide a DICOM Modality Worklist

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DICOM 3.0 functions	
DICOM Basic Print	DICOM Print For connection to a DICOM-compatible camera or DICOM-compatible printer
DICOM HIS/RIS	DICOM Worklist Management For importing patient/examination data from an independent HIS/RIS system, including HIS/RIS queries via special search criteria MPPS (Modality Performed Procedure Step) For exporting examination data to an independent HIS/RIS system

Documentation	
DVD / CD burner	Writing of images in DICOM format to DVD / CD (multisession)
Connection for paper printer (local or network printer)	Suitable for image documentation on paper Requirement: PostScript Level 2 Formats: DIN A 4, US Letter or US tabloid For connection within network: network-compatible printer required Note: Paper printer is not suitable for diagnostic purposes Only in connection with further documentation device

Displays	
19" TFT color display	
Screen size	19" (48 cm)
Image matrix	1280 x 1024
Maximum brightness, typical	280 cd/m^2
Horizontal/vertical viewing angle	170° / 170°
Contrast ratio, typical	1000 : 1
3 MPixel 21" TFT color display (optional)	
Screen size	21" (54 cm)
Image matrix	1536 x 2048
Maximum brightness, typical	400 cd/m^2
Horizontal/vertical viewing angle	170° / 170°
Contrast ratio, typical	400 : 1

The information in this document contains general descriptions of the technical options available and may not always apply in individual cases.
The required features should therefore be specified in each individual case at completion of contract.
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