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Agfa launches digital tomosynthesis solution that adds great value to a wide range of clinical applications.

Tomosynthesis is available for use with the DR 600 and DR 800 direct radiography solutions, empowered by MUSICA

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- Brand-new, patented tomosynthesis algorithms for iterative reconstruction deliver images with less noise and fewer artefacts.
- The algorithms enable very fast image reconstruction, overcoming the traditionally slow iterative reconstruction process.
- As part of an Agfa direct radiography (DR) solution, digital tomosynthesis combines the advantages of multi-slice scans, with MUSICA image quality and a fast DR workflow.

Agfa announces the launch of its digital tomosynthesis solution, which offers a fast, economical and low-dose technique to separate anatomical overlap in a variety of applications. Powered by MUSICA, digital tomosynthesis automatically delivers 3D reconstructions with optimal contrast and consistent quality across slices and images.

Meaningful answers for varied imaging domains

The digital tomosynthesis solution can add clinical value in a wide range of domains, including orthopedics (for the detection of microfractures, weight bearing exams, etc.), pulmonology (nodules, airway lesions, etc.) and urology. By combining the advantages of multi-slice reconstruction with the low dose and fast workflow of general radiography, it delivers meaningful answers that help improve the patient's experience and outcome.

Very fast multi-slice reconstruction

The digital tomosynthesis solution powers high-resolution, limited-angle tomography with very fast, multi-slice image reconstruction. It automatically presents three-dimensional images with optimal contrast, and provides

consistent MUSICA image quality across the individual slices and images. The reconstruction slice thickness can flexibly be set from 2 mm to 9 mm.

Patented algorithms reduce noise and artefacts

The solution uses patented tomosynthesis algorithms that overcome the traditionally slow iterative reconstruction process, to deliver images with less noise and fewer artefacts.

The DR 800 with digital tomosynthesis can capture a 30-degree tomo sequence in only 10 seconds, enabling a high patient throughput. Image reconstruction takes only 30 seconds.

Enhanced productivity and patient satisfaction

As part of an Agfa DR solution, digital tomosynthesis supports a smooth and efficient radiography workflow, which enhances the patient's experience while improving the productivity of the imaging environment.

It is available for use with the DR 800 and DR 600 solutions:

- The DR 800 is a flexible, intelligent, dynamic imaging solution that allows to carry out general radiography and fluoroscopy exams, and minor interventional procedures, in one room, with one investment.
- The high-productivity, fully-automated, ceiling-suspended DR 600 X-ray room streamlines workflow and increases throughput.

Closing the gap between 2D imaging and CT

"Having the digital tomosynthesis with our DR 800 offers us an additional imaging choice that speeds up diagnosis. It reveals things that might not be visible with classical X-ray. Yet it can be done without moving the patient from the X-ray department," says Dr. Robert Zbyslaw, Radiologist, Ilawa Hospital, Poland. "The digital tomosynthesis solution thus fills the gap between classical X-ray and e.g. full CT."

"Agfa's digital tomosynthesis solution turns hidden depths into meaningful answers," comments Georges Espada, Head of BU CR/DR at Agfa. "This type of customer-centric innovation meets radiology's need for intelligent, efficient

and continuously evolving solutions that add real clinical value and enhance the comfort and satisfaction of patients.”

For an image, courtesy of Agfa, [click here](#)

About Agfa

Agfa develops, produces and distributes an extensive range of imaging systems and workflow solutions for the printing industry, the healthcare sector, as well as for specific hi-tech industries such as printed electronics & renewable energy solutions.

The headquarters are located in Belgium. The largest production and research centers are located in Belgium, the United States, Canada, Germany, France, the United Kingdom, Austria, China and Brazil. Agfa is commercially active worldwide through wholly owned sales organizations in more than 40 countries.

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