

Agfa Press Office  
Septestraat 27  
B – 2640 Mortsel  
Belgium

George Curley  
Director, Marketing  
Communications, Americas

T +1 678-591-2828  
[George.curley@agfa.com](mailto:George.curley@agfa.com)

Marc De Fré  
Global Marcom Director  
Agfa HealthCare

T +32 (0)3 444 73 19  
[marc.defre@agfa.com](mailto:marc.defre@agfa.com)

Johan Jacobs  
Corporate Press Relations  
Manager Agfa-Gevaert NV

T +32 (0)3 444 80 15  
[johan.jacobs@agfa.com](mailto:johan.jacobs@agfa.com)

## At RSNA 2018, Agfa brings intelligent radiography, powered by the MUSICA digital Nerve Center, for image processing and workflow

### More intelligence at the modality level enables quality, efficiency and collaboration throughout the entire DR imaging process

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- Comprehensive direct radiography portfolio and innovative technologies deliver high-quality imaging at low dose.
- All Agfa DR solutions come with the self-adaptive MUSICA image processing technology, enabling “first time right” imaging.
- New Dynamic MUSICA for fluoroscopy (available with the DR 800 multi-purpose DR system).
- MUSICA digital Nerve Center offers an intuitive imaging workflow engine and quality control tool for excellent radiography efficiency.

**(RSNA, South Hall, Booth #3300)** At Agfa’s RSNA 2018 booth, radiology professionals will discover intelligent radiography powered by MUSICA. In addition to its complete range of direct radiography (DR) solutions, Agfa is developing smart tools to improve staff and patients’ experiences, beginning with image acquisition. The MUSICA Nerve Center enables customer-driven computed radiography (CR) and DR workflows that reflect the real needs of technologists, radiologists and healthcare facilities, while MUSICA image processing delivers exquisite details throughout the image and allows facilities to lower patient dose.

#### MUSICA self-adaptive image processing technology

The gold standard MUSICA image processing brings intelligence to the entire DR imaging process, before and after exposure, for “first time right” imaging. MUSICA3+ offers improved performance for difficult imaging requirements. A recent study carried out by the University Hospital of Munich, investigating the simplification of exposure techniques, found that Agfa is the first company on the

market that fully exploits the benefits of DR technology, thanks to MUSICA's self-adaptive image processing technology.

### **MUSICA goes dynamic, with the DR 800**

Dynamic MUSICA processes both general radiography and fluoroscopy<sup>1</sup> images with the same, proven high image quality and efficient workflow, for static and dynamic (moving) images. Dynamic MUSICA is already being used, together with the DR 800<sup>2</sup>, at hospitals in the U.S. and UK.

Florida Hospital (part of the Adventist Health System) has chosen to install the DR 800 with Dynamic MUSICA at three of its hospitals, to advance its value-based care initiative. "The versatility of the DR 800, round the clock utilization, increased productivity, potential for lower dose, and improved image quality that MUSICA provides will allow these Florida Hospital facilities to fulfill their patient care initiatives easily and affordably," explains Ueli Laupper, Vice President Marketing / DR, North American Imaging Business Unit at Agfa.

The Royal United Hospitals Bath NHS Foundation Trust, in Somerset, England, has become the first in the UK to install the DR 800 with Dynamic MUSICA. The Trust was impressed by the versatility of the solution, which handles fluoroscopy, general radiography and free exposures in one system, in a single, less cluttered room, with a simple interface.

### **MUSICA Nerve Center: intelligent tools for workflow**

The MUSICA Nerve Center offers a single, intuitive interface for smooth, efficient DR and CR general radiography, fluoroscopy, mammography and full leg/full spine (FLFS) imaging<sup>3</sup>. Designed to meet the needs and tasks of technologists, radiologists and imaging facilities, it incorporates smart, customer-driven innovations that facilitate flexibility and customization.

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<sup>1</sup> Fluoroscopy is not available in Canada.

<sup>2</sup> The DR 800 is not available in Canada.

<sup>3</sup> Digital mammography is not available in the U.S. Fluoroscopy is not available in Canada.

### **High-speed tomosynthesis (Work in Progress)**

Visitors to Agfa's booth can find out about the work-in-progress tomosynthesis for DR<sup>4</sup>, for multi-slice reconstructed images. Agfa's brand new, patented tomosynthesis algorithms use iterative reconstruction, resulting in less dose, noise and artifacts. Agfa has overcome the usual slow iterative reconstruction process with algorithms that can reconstruct images in less than one minute.

### **Digital imaging for today's healthcare needs**

Agfa's comprehensive range of radiography solutions comes with MUSICA image processing and a choice of fixed, wireless and tethered detectors with Cesium Iodide (CsI) or Gadolinium Oxy-Sulphide (GOS) technology. CsI also offers the potential for dose reduction<sup>5</sup>.

- **Genrad/Fluoroscopy DR:**

Much more than an X-ray room, the DR 800<sup>6</sup> is an intelligent, dynamic imaging solution designed to enable radiology to meet the growing demand for fluoroscopy, without requiring multiple investments. The flexible, multi-purpose system supports enhanced image quality, productivity and workflow efficiency for the busy imaging environment.

- **Ceiling-suspended DR:**

The fully automated DR 600 takes the DR X-ray room to the next level, with ZeroForce and EasyStitch full leg/full spine stitching technologies. This high-productivity system unites excellent automation with Agfa's top of the line image quality. It streamlines workflow, increases throughput and enhances the experience of patients and operators alike.

- **Floor-mounted DR:**

The DR 400 brings scalable DR to the reach of every imaging environment. This complete, floor-mounted DR system can grow and develop with the needs of the facility. It delivers higher throughput with a lower cost per examination, all while providing excellent image quality.

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<sup>4</sup> Agfa tomosynthesis for DR is a work in process and currently not released in the U.S. and Canada.

<sup>5</sup> Testing with board-certified radiologists has determined that Cesium Bromide (CR) and Cesium Iodide (DR) Detectors, when used with MUSICA image processing, can provide dose reductions between 50 to 60%, compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa HealthCare for more details.

<sup>6</sup> The DR 800 is not available in Canada.

- **Mobile DR:**

The DX-D 100 delivers mobile imaging excellence, with fast high-quality image capture and immediate image validation, transfer and access. Combined with a new, dedicated stitching cabinet and MUSICA FLFS stitching software, it offers a mobile solution for full leg/full spine imaging.

Visitors can also discover the DR 100e<sup>7</sup>, which makes bedside and ICU imaging convenient and cost-effective. This mobile DR unit can be maneuvered down narrow corridors and set-up wherever needed, for optimal patient comfort. Yet the powerful X-ray generator, exquisite DR quality and MUSICA image processing software provide excellent performance and productivity.

- **DR Retrofit:**

With the DR Retrofit, any hospital or clinic can make the move to DR, while maximizing existing investments. Analog and CR modalities – fixed, mobile, full leg/full spine, and mammography for CR modalities – become high-productivity DR systems. The benefits are clear: fast, high-quality images and a smooth, fast workflow.

“We are committed to putting intelligence into the hands of imaging departments, to enable them to enhance patient care while optimizing productivity,” comments Louis Kuitenbrouwer, VP Imaging, Agfa. “MUSICA is the nerve center for our digital radiography solutions. Together with our comprehensive DR range, our smart tools and our data analytics, it brings intelligence to imaging at the modality level.”

**To find out more about how Agfa offers intelligent radiography powered by MUSICA for image processing and workflow, visit us at RSNA 2018, 25-30 November, Chicago, IL, USA, South Hall, Booth #3300.**

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

#### **About Agfa NV**

Agfa NV is one of the world's leading companies in imaging technology. Agfa NV develops, manufactures and markets analogue and digital systems for the printing industry, for the healthcare sector, and for specific industrial applications. The group has more than 150 years of imaging experience. The healthcare division

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<sup>7</sup> The DR100e is not available in the U.S. and Canada

delivers diagnostic imaging solutions that set standards in productivity, safety, clinical value and cost effectiveness. Agfa is headquartered in Mortsel, Belgium. The company is present in 40 countries and has agents in another 100 countries around the globe.

For more information on Agfa HealthCare, please visit [www.agfahealthcare.com](http://www.agfahealthcare.com) or the [Agfa HealthCare Blog](#)



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