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MUSICA Nerve Center

Intelligent tools for your Digital Radiography workflow



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For over 20 years, Agfa's MUSICA image processing has been synonymous with quality medical imaging. And controlling the flow of that imaging has been MUSICA's digital Nerve Center.

With its customer-driven workflow and powerful, innovative features and functionalities, the MUSICA Nerve Center incorporates more than a century of medical imaging know-how. Your DR and CR imaging workflows – including general radiography, fluoroscopy, mammography, Full Leg/Full Spine and tomosynthesis – are smooth and efficient¹.

Its broad range of features and tools have been designed and developed alongside technologists, with their workflow needs in mind: a touch-enabled intuitive interface, fast previews, a vast number of exam presets for both static and dynamic images, and much more.

Radiologists benefit from fast access to images², the diagnostic confidence of MUSICA's fully automatic image processing, the potential for up to 60% dose reduction³, comfortable and fast reading, high reliability and a unique 1-click workflow.

The MUSICA Nerve Center helps support compliance with a broad range of regulations and standards, while offering easy system administration and manageability. Reporting tools enable the radiology department to continuously improve imaging, by flagging training needs, reducing rejects and repeats, and monitoring dose.

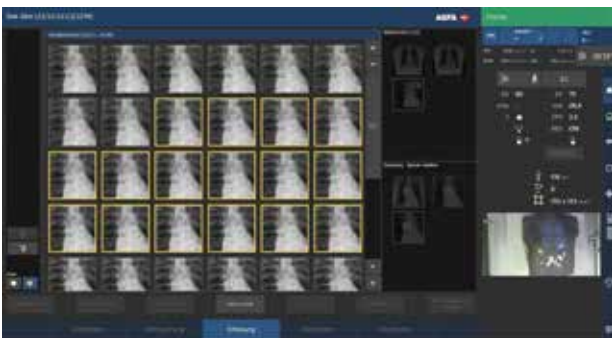




MUSICA Nerve Center:

- Enables intuitive use of DR & CR general radiography, fluoroscopy¹, mammography¹, Full Leg/Full Spine, and tomosynthesis¹.
- Provides a customer-driven workflow that reflects the real needs of technologists, radiologists and healthcare facilities.
- Offers excellent image quality and high consistency on every Agfa DR and CR solution.
- Facilitates connectivity, compliance and quality.
- Supports potential dose reduction and continuous improvement of quality imaging.

Enhanced EFFICIENCY



Smooth sailing, with an optimized workflow

Built on robust and proven technology, the MUSICA Nerve Center is a tool you can rely on to keep your imaging and patient flows smooth. Over the years, Agfa has developed and implemented customer-driven innovations that enable the workstation to evolve in line with customers' requirements and tasks.



Frequently used tasks made easy

The user's workflow can easily be customized, enabling a fast, smooth completion of tasks that truly matches the needs of technologist, radiologist, department and hospital. The most frequently used tasks are the easiest to do. For example, the fast preview facilitates positioning and exposure; a myriad of exam types can be predefined and linked to RIS protocols; and a multi-exposure DR study can be completely predefined, down to the X-ray exposure settings.



One interface, for multiple applications

With the MUSICA Nerve Center, you have a single interface for all your CR, DR, general radiography and fluoroscopy applications. The familiar look-and-feel eliminates time-consuming training and increases day-to-day staff efficiency.



Increased flexibility

The workstation includes a hybrid touchscreen/mouse interface that is highly efficient. With a tap on the touchscreen, the technologist can quickly complete tasks: identifying patients, performing examinations, controlling image quality and transmitting verified images.

When precision work is needed, the mouse provides access to a broad array of special tools: zoom, manual collimation and cropping, custom annotations, guided measurements and region of interest analysis, advanced MUSICA image processing, saving and exporting edited images, and much more.

A dynamic view

Dynamic imaging – both fluoroscopy and rapid sequence imaging – is an increasingly powerful tool for analysis and diagnosis. With the MUSICA Nerve Center, you have dedicated exam protocols for different acquisition groups:

- 'Radiography Only', supporting only static images;
- 'Fluoroscopy', supporting acquisition of a dynamic sequence followed by one static image;
- 'Full Dynamic', allowing for virtually unlimited acquisition of both static and rapid sequence images.

This approach results in a consistent and easy to learn workflow for both static and dynamic imaging.

A comfortable read

The intuitive user interface makes tools and tasks available with a click. Its fresh design offers a look-and-feel that is comfortable to view, with less clutter and fewer distractions. MUSICA image processing eliminates the need to spend time adjusting window and level, while repetitive patterns caused by anti-scatter grids are removed. The area outside the diagnostic area is dark, even when multiple exposures are made on a single CR plate.

The diagnosis is in the details

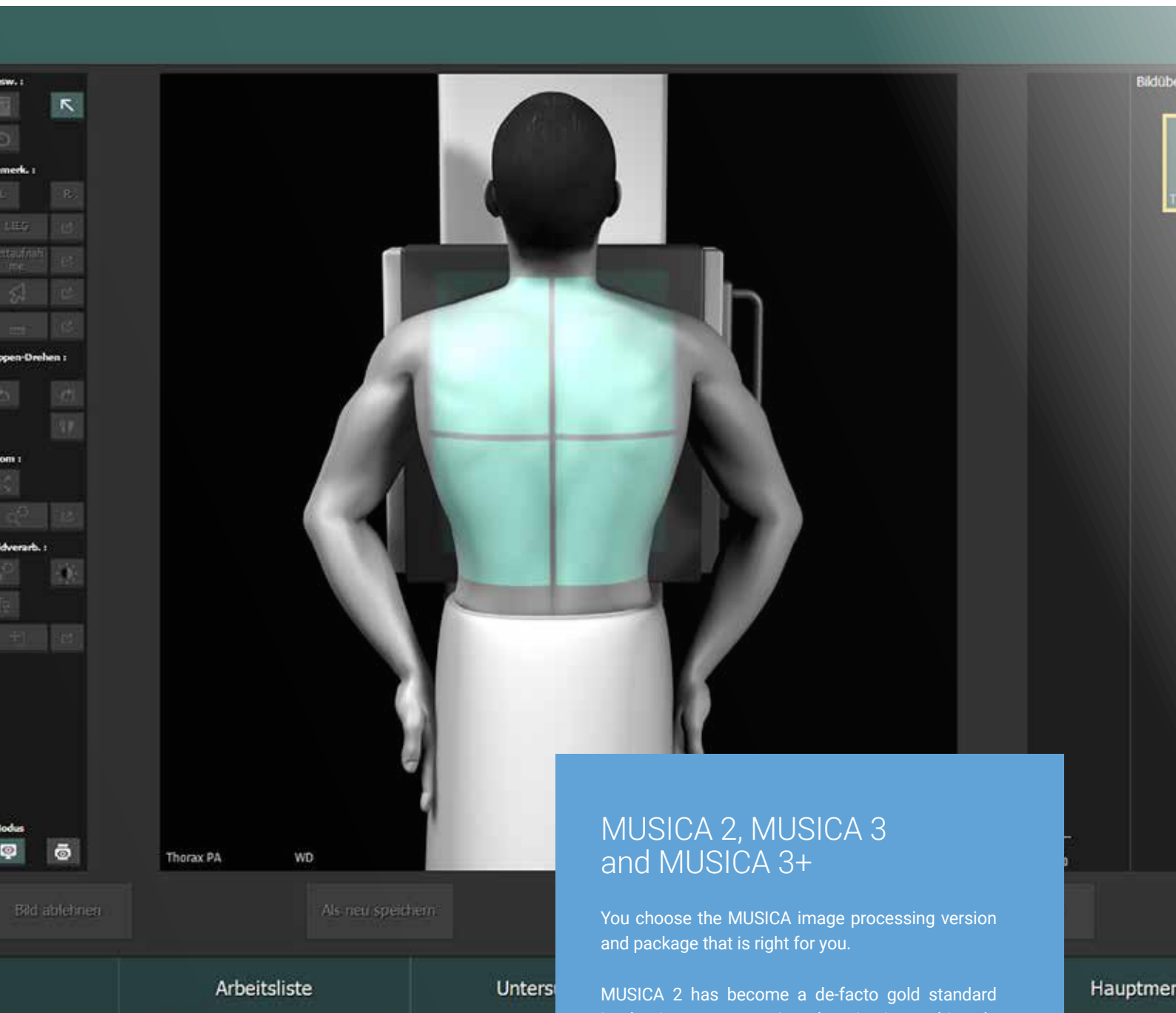
The MUSICA Nerve Center provides your Agfa DR and CR systems with MUSICA image processing capabilities, for excellent image quality, consistent images and an efficient reading process.

With MUSICA, 'the diagnosis is in the details'. This gold-standard software uses next-generation technology to enhance your diagnostic confidence. Regardless of patient size, beam quality or exposure settings, you can achieve high image quality and high consistency on every Agfa DR and CR solution.

MUSICA offers you ease of use and optimum output of images, for any collimation, body part or patient position. It directly derives the parameters it needs from the image data itself, automatically analyzes the characteristics of each image, and then optimizes the processing parameters to match the preference of the radiologist– so you don't need to do a thing.

This makes it ideal for a broad range of specialty applications, from pediatrics to bariatrics. You get the most from all of your images: enhanced lung detail, high contrast for difficult chest areas and extremities, a homogenous presentation of all tissues and a detailed and natural presentation of soft tissues. Special packages can enhance this flexibility.





MUSICA 2, MUSICA 3 and MUSICA 3+

You choose the MUSICA image processing version and package that is right for you.

MUSICA 2 has become a de-facto gold standard in the image processing domain: its multi-scale processing engine automatically produces optimized images – every time.

MUSICA 3 intelligent fractional multi-scale image processing takes image quality to the next level, with dedicated digital radiography image processing for chest, skeletal, abdomen, mammography, and neonatal image settings.

MUSICA 3+ adds processing packages for specific and challenging clinical applications, bariatric imaging, transversal axial skeleton imaging, gridless imaging and catheter highlighting

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Advanced mammography tools

Dedicated mammography tools are optimized for the specific mammography screening or diagnostic imaging workflow. There are a host of specialized CR and DR exams, and a view study is performed with just 2 clicks.

The MUSICA Nerve Center never crops your mammography images, and it offers an automatically progressing DR sequence flow that is beneficial for the screening workflow.

And by supporting the DR Mammo Retrofit⁴, MUSICA's digital Nerve Center helps your facility maximize your existing mammography investments. This vendor-neutral retrofit turns your existing CR or analog mammography equipment into a high-productivity DR system.

Full Leg/Full Spine - fixed and mobile

Full Leg/Full Spine, or "stitching", for DR and CR automatically assembles and stitches multiple images and corrects misalignments, giving you a seamless body view with minimum manual interaction. Two workflows handle fixed and mobile DR Full Leg/Full Spine, which includes landscape imaging.

State-of-the-art precision tools

The MUSICA Nerve Center includes a broad range of precision tools that maximize imaging efficiency, minimize time spent acquiring images, and optimize time spent with patients:

- Annotations: including markers, free or predefined text, rectangular or circular shutters to mask areas, measurements of distances and angles, documenting the exact time of the exposure, etc.
- MUSICA image processing parameters: can be adjusted to meet the preferences of any facility and for any specialty examination.
- Optiview: minimizes grid-related artifacts, automatically optimizes viewing quality with black borders (cropping), and alerts radiologists if an image has been flipped or rotated using a simple square marker.





CONNECTIVITY, DICOM COMPLIANCE AND QUALITY

Connected, for better care

The MUSICA Nerve Center is your tool to provide connectivity, DICOM compliance and quality. It plays a significant role in your goal of providing patient comfort and care by improving communication throughout your enterprise.

Connected to your RIS, the MUSICA Nerve Center can automate many tasks, thanks to the direct access to patient data. Less time identifying patients and inputting their data translates into an improved technologist workflow.

The MUSICA Nerve Center meets IHE guidelines and is DICOM compliant: all DICOM images can be easily transmitted to a display station, imager or PACS for diagnosis.

The Office Viewer app lets you distribute the MUSICA Nerve Center images throughout the facility, making it ideal for private practices. It can be installed on almost any network PC, so patients can be shown their images in the radiologist's office or the exam room without the need for an expensive PACS.

Dose and quality: a continuous journey

The Quality Assurance application is based on the international Exposure Index and DAP standard, to help you maintain consistent image quality and minimize patient radiation doses by monitoring dose variations on every exposure and analyzing reject statistics.

The technologist can instantly see how much the exposure dose deviates from the exam reference value. And the hospital can analyze the causes of rejected images and take quick action to target and resolve them.

In addition to its integrated Extended Dose Monitoring tool, the MUSICA Nerve Center also supports the IHE Radiation Exposure Monitoring (REM) profile, allowing structured dose reports to be sent to PACS and separate dose monitoring systems.



DR 100e

AGFA
HealthCare



ROBUST, PROVEN SOFTWARE AND HARDWARE

'Under the hood'

MUSICA's digital Nerve Center supports the Microsoft Windows 10 operating system, for a faster, more responsive system that is less susceptible to security risks associated with older versions of the Microsoft Windows operating system. It is installed on robust computers developed and manufactured for a business-critical, busy, 24/7 environment. Strenuous endurance, security and performance testing provide for reliability.

Fixed PCs support both CR and DR "room" installations, and a convertible, 2-in-1 laptop/tablet lets you go from DR room to DR room, for ultra-mobile use. You can easily switch between external (diagnostic) monitors and the laptop with a docking station, and you can comfortably mix CR and DR Retrofit workflows.

- Dynamic Imaging support
- MUSICA 3+ license
- MUSICA 3+ Bariatric Abdomen processing
- DR Mammo support
- FLFS for retrofit and DX-D 100
- Microsoft Windows 10 support

For more information on Agfa, please visit our website on www.agfa.com ■

- 1 Digital mammography is not available in the United States. Fluoroscopy is not available in Canada. Tomosynthesis is not available in the United States and Canada.
- 2 The average X-ray imaging study time using an Agfa DR system was four (4) minutes faster than non-Agfa DR systems evaluated in the Frost & Sullivan white paper "Raising the Bar While Lowering the Dose," published in 2016.
- 3 Testing with board certified radiologists has determined that, when used with MUSICA image processing, Cesium Bromide (CR) and Cesium Iodine (DR) detectors can provide dose reductions between 50 to 60%, compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa for more details.
- 4 DR Mammo Retrofit is not available in the United States and Canada.

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Published by Agfa NV
Septestraat 27 - 2640 Mortsel
Belgium

201901

