



**DR 600:  
ULTIMATE SPEED  
PRECISION  
COMFORT IMAGING**

High-productivity, fully automated  
direct radiography with  
ZeroForce Technology from Agfa



# TOP-PERFORMANCE

## Digital X-ray room

With its high-productivity, innovative features and ZeroForce Technology offering high speed, precision and movement, the fully automated DR 600 streamlines workflow, increases throughput and enhances the experience of patients and operators alike, even in the busiest imaging environment.

In your high-throughput imaging environment, speed, precision and comfort are at a premium. We've built upon our long-term experience and close relationships in radiology and beyond to design a top-performance digital X-ray room: the DR 600 high-productivity, direct radiography (DR) imaging solution.

What makes the DR 600 special isn't only its individual features and capabilities: it's how they come together in a complete and integrated solution that provides high quality images, while maximizing productivity, versatility and ease of use.

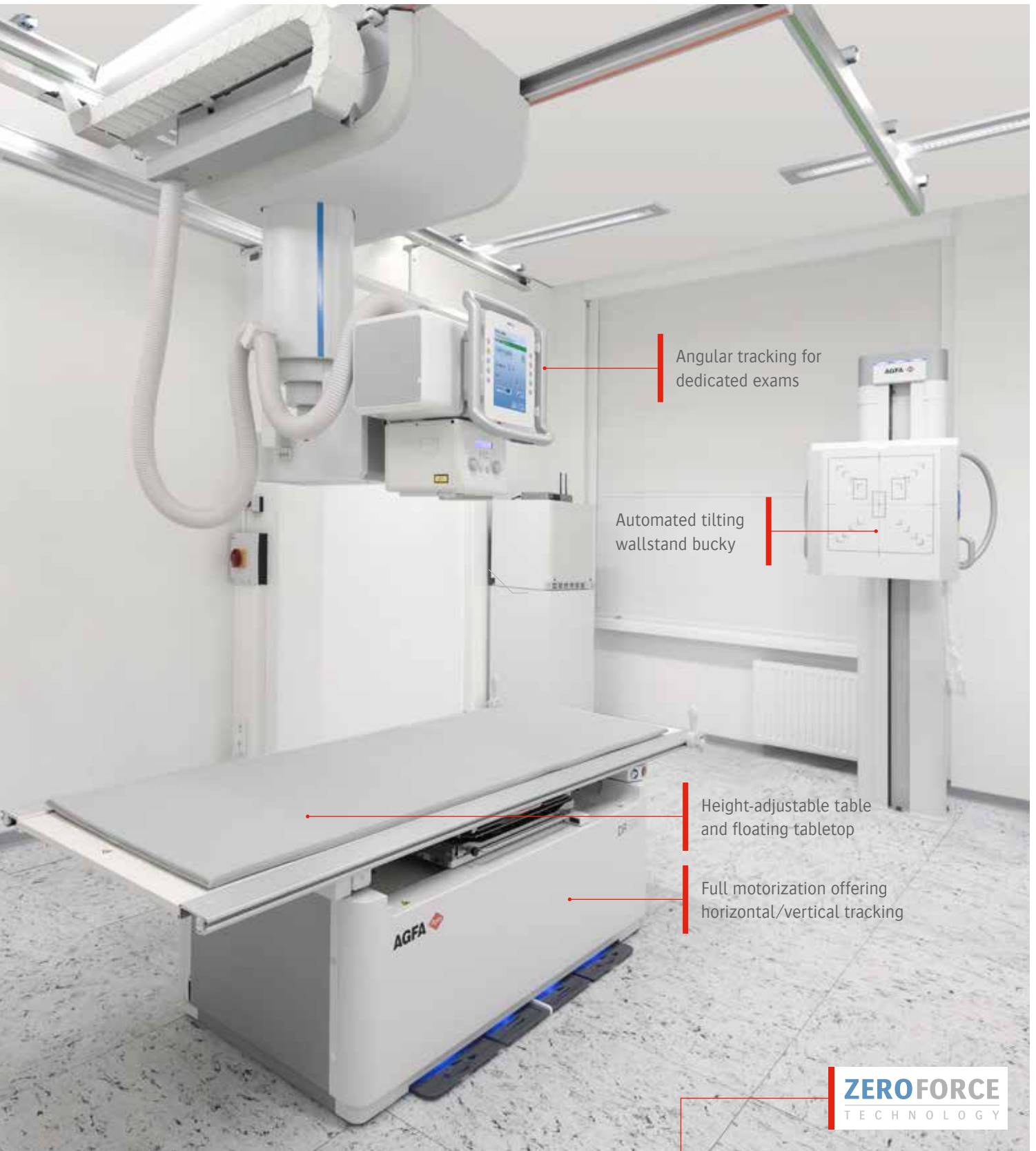
Robotization, in combination with the pre-programmed MUSICA workstation exam tree, the automated MUSICA image processing, and seamless integration with RIS and PACS, all work in concert to give you what you need: the right images, quickly and efficiently, with unmatched ease of use for the operator and comfort for the patient.

### Why choose the DR 600?

- Excellent image quality provided by our most advanced generation MUSICA image processing software
- Single or multi-detector, high-productivity and high-throughput digital X-ray room
- Full automation, auto-positioning and auto-tracking
- ZeroForce Technology, offering smooth operation with almost zero effort for manual movements
- Significant potential for dose reduction<sup>1</sup>, with the Cesium Iodide detector
- Handles a broad range of general radiography and tomosynthesis exams
- DR Full Leg/Full Spine capability with EasyStitch technology for both standing and recumbent patients

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<sup>1</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 of 50 to 60%, compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa for more details.



Angular tracking for dedicated exams

Automated tilting wallstand bucky

Height-adjustable table and floating tabletop

Full motorization offering horizontal/vertical tracking

**ZEROFORCE**  
TECHNOLOGY

**ZeroForce Technology:** movements of the tube head, wall stand and table in all different directions are quick and require almost zero effort.

# COMFORT

## zone

What is comfort? In imaging, we need to consider the comfort of patients and operators alike. The DR 600 takes on comfort in several ways: how easy it is to operate the system correctly, how quickly the image taking process is completed, and more.

### Light, easy, automated operation

Full automation, including the latest in auto-positioning technology, fully automated tracking and manual positioning, makes the DR 600 easy and light to operate.


ZeroForce Technology means all movements of the tube head, wall stand and table in any direction are quick and require almost zero effort. Designed for both ergonomics and productivity, the DR 600 is easy to steer and use, so the operator can work comfortably and quickly, even in high-throughput situations.

The height-adjustable table and floating tabletop offer very easy positioning for a wide range of patients and types of studies, providing greater comfort for technologists and

patients alike, while minimizing the time needed for taking images.

The ceiling-suspended tube crane is operated through a touch screen control panel and integrated soft console on the MUSICA workstation monitor. Ceiling movements are controlled by simply selecting a thumbnail on the MUSICA workstation, followed by auto-positioning. The touch screen features a preview image; and with its APR (Anatomically Programmed Radiography) and X-ray parameters, such as each patient's name, exam and view, workflow is streamlined.

Additional features include LED lighting that indicates when the table or wall stand is in use, a programmable parking position for the auto position function, and a configurable cleaning position for the unit that allows easy access to all parts of the system.

 We have previews and images in seconds, without leaving the room. This means we can also do any retakes immediately.

**Fiona Rooke**, Diagnostic Services Manager, Yeovil District Hospital, UK



At busy Logan Hospital, MUSICA and the DR 600 are keeping the imaging workflow smooth and efficient, while meeting the quality and dose reduction needs for patients and staff.

**Michael Neep,**

Team Leader Radiographer, Logan Hospital, Meadowbrook, Queensland, Australia

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**Accurate and efficient dose management and potential dose reduction**

The DR 600 proposes a choice of fixed, tethered or wireless detectors, with Cesium Iodide (Csi) or Gadolinium Oxy-Sulphide (GOS) technology. The excellent DQE and image quality of the Cesium Iodide detector offer the potential for significant patient dose reduction\*, with fast availability of images that speeds up workflow and reduces patient waiting times.

By using leading-edge Automatic Exposure Control for high-speed accuracy and collimators with Dose Area Product meter, the DR 600 optimizes and automatically reports doses. Short exposures offered by new dose sensing technology keep dose measurement accurate to the millisecond.

**Convenient remote control for positioning or collimation**

Optionally, a handheld remote control is available, with a choice of two configurations, enhancing the convenient, easy operation.

The 'Positioning' configuration includes buttons for auto center,

auto tracking and beta rotation of the tubehead. The 'Collimation' configuration replaces those with collimator shutter control buttons.

A holder for the remote control unit can be mounted on a wall or even on the wall stand itself.

**Maximum load and positioning capabilities**

In terms of load and position, the DR 600 is the Agfa DR solution that is ideal for the widest range of patients and types of studies. The radiographic table supports a high patient load (320 kg / 705 lbs), enabling you to undertake the most logistically challenging studies.

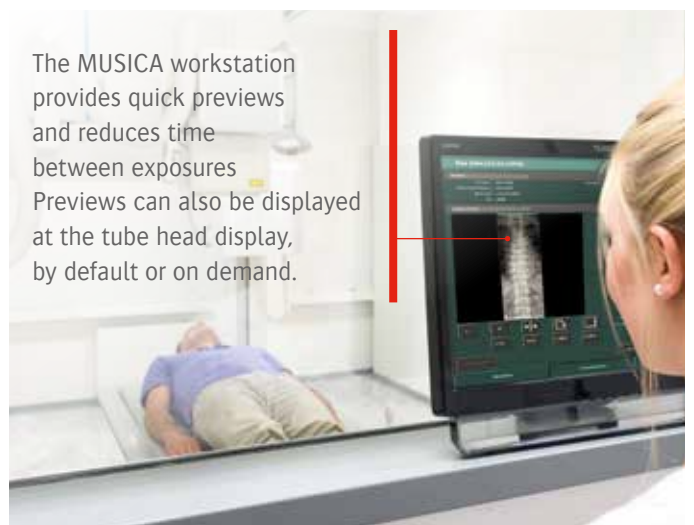
Both table and wall stand bucky include grid sensing that alerts the operator to the grid's insertion, providing optimum exposure quality, and detector sensing for standard cassette sizes, according to ISO 4090.

Full motorization of vertical/horizontal table bucky tracking and auto-positioning, and a tilting bucky on the wall stand, offer precise positioning. And the rotating bucky makes rotation from landscape to portrait simple.



**In-bucky detector charger:**  
The fully automated version includes an optional in-bucky charger for the detector, ensuring a fast and efficient workflow.





The MUSICA workstation provides quick previews and reduces time between exposures. Previews can also be displayed at the tube head display, by default or on demand.



Up to

# SPEED

Every moment counts in a busy imaging environment: for the radiologist, technologist and patient. So the speed of a solution can't be measured on one element alone: you have to take into account the entire imaging flow, from positioning the patient, to the image acquisition, to the availability of the image.

## **Modern automation technology maximizes productivity**

The DR 600 provides the latest in auto-positioning technology, fully-automated tracking and manual positioning – with quick, near zero-force movement in all different directions, making it indispensable in an emergency situation.

The combination of automation with the pre-programmed MUSICA workstation exam tree and the automated MUSICA image processing gets you up to speed, for maximum productivity.

Solid integration with your radiology information systems (RIS) and picture archiving and communication systems (PACS) – such as configuring the system to translate RIS protocol codes directly into exam tree settings – offers further workflow improvement and helps accelerate your return on investment.

## **Easy acquisition, with the MUSICA workstation**

The DR 600 harnesses the power of both MUSICA image processing and the MUSICA workstation workflow to provide quicker previews that reduce time between exposures and thus deliver a higher rate of throughput. The result is a lower cost per exam and faster patient throughput.

With its intuitive interface, the MUSICA workstation is fast and easy to use: it requires no training to get you up-and-running, and you get just what you need in fewer mouse clicks.

## **Flexible workflow**

With the DR 600, you have complete workflow flexibility. You choose the next exam on the acquisition workstation, and it's easy to switch the order of exams on the tube head display. So you can keep the patient throughput flowing smoothly.



With our DR solutions, the patient is usually in and out in 15 minutes – about half of the time it took before.

**Fiona Rooke**, Diagnostic Services Manager, Yeovil District Hospital, UK



**Next generation MUSICA offers you even better viewing of difficult areas**

- Balanced presentation of both soft tissue and overlapping bone structures
- Visualization of subtle details in the abdomen
- True representation of implants with clear bone interfaces
- Confident, comfortable reading

EasyStitch technology: minimizes distortions, for high-precision FLFS imaging.



# PRECISION

'Almost' and 'approximately' aren't good enough in imaging. You want the right image the first time. That means the patient and components must be positioned correctly for image acquisition, and the image must be processed optimally.


## 'First time, right time' MUSICA image processing

At the heart of the DR 600 high-productivity solution lies Agfa's MUSICA gold standard image processing software – the latest intelligent and automated digital radiography image processing software for consistently reliable, high-quality image visualization. Exam independent, MUSICA automatically analyzes the characteristics of each image and optimizes processing parameters – independent of user input and dose deviations. As a result, minimal re- or post-processing is required. In addition, MUSICA provides a consistent look and feel on your digital images from either computed radiography (CR) or digital radiography (DR). The DR 600 and MUSICA acquisition workstation can support both CR and DR in a single environment for customers making the transition from CR to DR.

## DR Full Leg Full Spine option with EasyStitch technology


The fully motorized wall bucky has vertical tracking with the tube, offering the option of DR Full Leg Full Spine (FLFS) with EasyStitch technology.

Based on fully automated single focus technology, EasyStitch minimizes distortions. Angular tracking is available for dedicated exams, while motorized movement of the wall stand and tube head provides accurate stitching capabilities, for high precision in images. An optional table overlay allows you to perform FLFS right on the table.



The new generation of the  
MUSICA image processing  
software is extremely successful.

**Dr. Gunther Sigmund**, Head of Radiology,  
Klinikum Mutterhaus der Borromäerinnen, Trier, Germany

 Having the digital tomosynthesis 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.

**Robert Zbyslaw**, Radiologist, Ilawa Hospital, Poland

### Digital tomosynthesis

MUSICA also offers digital tomosynthesis software<sup>2</sup>, which powers very fast, multi-slice image reconstruction, automatically presenting images with optimal contrast, and providing consistent image quality across the individual slices and images.

Agfa's tomosynthesis algorithms for iterative reconstruction not only deliver images with less noise and fewer artefacts, but also enable very fast image reconstruction.

### Nothing to hide

Digital tomosynthesis adds clinical value in a wide range of domains, including orthopedics (for the detection of microfractures, weight bearing exams, etc.), pulmonology (nodules) and urology. Separating anatomical layers, it visualizes findings that might otherwise be 'hidden' by dense tissue. You see more, more quickly: for a faster diagnosis and higher patient satisfaction!

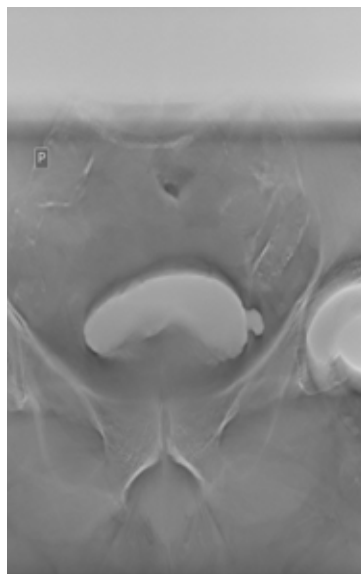
### Detectors that capture every detail

The MUSICA image processing empowers a complete range of high-quality detectors in all sizes: 10 x 12", 14 x 17" and 17 x 17".

Moreover, the improved fill factor and high resolution of the CsI detectors provide greater detail. This is especially useful in fields such as neonatal, pediatrics, rheumatology and diagnosis of stress fractures.



<sup>2</sup> Digital tomosynthesis is available on the DR 600, when used with the DR 14s detector.



Digital tomosynthesis powers high-resolution, limited-angle tomography with fast multi-slice reconstruction.



The DR 600 offers you all the benefits of DR productivity and CR versatility.

# The right **CHOICE**

Making the right choice for your facility can be challenging. You want to be sure that you take the best decision as it has long-term implications, both practical and financial.

## **Premium quality imaging founded on proven technologies**

At Agfa, imaging and integration are our core business. Built with solid, factory-quality hardware manufactured at our award-winning factory in Peissenberg, Germany, the DR 600 gives you the confidence of knowing that it is founded on the same proven technologies as all Agfa solutions: high quality, equipment, excellent productivity and competitive service and maintenance agreements.

## **Professional services optimize room performance**

Beyond the installation and staff training involved in implementing the DR 600, Agfa provides advice when planning your room. This helps you optimize the performance of your facility and benefit from the increased ergonomomy and productivity for many years to come.

## **Relationships for the long term and a scalable growth path**

As an established and proven state-of-the-art, innovative vendor, we are committed to long-term, productive relationships that ensure you enjoy all the benefits of developing imaging technology. Our program of new products is specifically designed to help you continue on your digital path from CR to a full DR system.

The DR 600 offers you all the benefits of DR productivity and CR versatility. By combining the DR 600's direct image capture capabilities with versatile panel formats that allow you to design the room that you need, MUSICA image processing, quicker preview on the MUSICA workstation and tube head, a touch screen display on the tube head and a user interface with the same look and feel for both CR and DR, the DR 600 enables you to migrate to direct radiography seamlessly.



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