



AGFA
RADIOLOGY
SOLUTIONS

DR 400

**Affordable, customizable
digital radiography
without compromise**

Bringing scalable DR within your reach

AGFA 

Digital solutions can be affordable and still meet the high quality standards you need. With our DR 400 we offer a complete, scalable DR solution that can grow and develop with your facility. A solution that allows you to choose your own digital path at your own pace, that delivers higher throughput with a lower cost per examination, and that helps lighten your load – all while providing excellent image quality. That's the DR 400.



Digital imaging

at your own pace

Digital Radiography made affordable

Created to meet the needs of community hospitals and private radiology practices, the DR 400 enables price-sensitive customers to join the drive to go digital. Its versatile floor mounted radiography system enables you to go from film to computed radiography (CR) to digital radiography (DR) – at your own pace and budget.

Capable of integrating with other elements of your existing system with little adaptation, the DR 400 offers multiple digital configurations, ranging from a CR-based solution, to a single detector DR system, to a comprehensive multi-detector DR system. So you can start where you want – for example with a CR cassette-based solution – and then move up to cassette-less DR when you are ready.

Reach for a helping hand: SmartRotate

SmartRotate is available with the DR 400, putting Agfa's proven imaging expertise into play by automatically presenting images ready for viewing. It is part of the SmartXR portfolio, which brings artificial intelligence to your digital radiography equipment at the point of care, to help lighten your workload and provide practical image acquisition support.

Floor mounted for ease of installation and use

The DR 400's floor mounted system comprises a radiographic table with integral floor guide rail and a wallstand. Requiring little room preparation, it is easy to install and, at just 12 x 6 feet (4 x 2 m) in size, needs limited space. Complemented by a choice of generators and tubes, this compact in-room solution requires only a single person with minimal training to operate it, making it highly cost-effective.





DR 400 is very fast, which is especially useful with pediatric patients. Repeats are practically zero. Radiation is significantly lower. It gives us better images in less time. Overall, the DR 400 has made a big difference for the speed and efficiency of our workflow.

DR. DEEPAK PATKAR, Director, Medical Services and Head Department of Imaging, Nanvatie Super Speciality Hospital, Mumbai, India

Supports additional or existing Agfa CR for maximum versatility

The combination of DR with additional CR systems enables the capture of all general radiography examinations and complex studies such as single-shot CR Full Leg Full Spine with high accuracy and image quality. Moreover there is a solution for every budget.

When moving from film to CR, you enjoy a choice of powder phosphor plates or needle phosphor detectors. For the transition from CR to DR, fixed, tethered or wireless detectors using Cesium Iodide (CsI) technology are available. The choice is – always – yours!

Tailor it to your unique needs

Your imaging environment and needs are unique, and the scalable DR 400 offers plenty of options for you to tailor your solution your way. So you can excel in image quality, workflow and functionality at a price you can afford.

You have a range of options to choose from

- > Motorized vertical tracking of the tubehead automatically adapts the height of the tubehead when the height of the bucky is changed, for better and easier patient positioning.
- > 10-inch multi-functional display on the tubehead, automatically rotating, with image previews, radiographic parameters, and more.
- > Automatic cassette size sensor in the rotating bucky that controls the automatic collimator and speeds up the workflow.
- > DAP (Dose Area Product) meter: either external (with the manual collimator) or internal (for the automatic collimator).

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Built with hospital grade, the DR 400 secures your investment and provides excellent uptime and reliability.

With the rotating bucky, the operator can work more quickly and efficiently, handling the detector more easily and with less risk, for enhanced workflow and productivity.



Proven best-of-breed components

Built around solid, best-of-breed quality hardware, the DR 400 secures your investment and provides excellent uptime and reliability as well as a low total cost of ownership. Flexible configurations, from basic analog to fully digital, allow you to select a solution tailored to your specific needs.



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Tube

- > Choice of tubes at different levels of generator power and heat capacity.
- > Effortless column motion facilitates the most complicated views.
- > Practical and easy to manipulate tubehead controls.
- > 10-inch multifunctional tubehead display provides radiographic parameters, SID, tube angulation, image preview,
- > Compact, floor mounted tube column enables low cost installation.

Table

- > Robust and user friendly for both operator and patient.
- > Double touch foot switches support safe operation.
- > Radiographic table offers choice of elevating or non-elevating function.
- > Handles patient weight up to 320 kg.
- > Bucky tray's horizontal movement aids patient positioning.
- > Radiographic accessories such as lateral cassette holders and compression belts can be attached to the tabletop easily.

Collimator

- > Manual and automatic versions provide options for all budgets.

Generator

- > Choice of generators ranging from 40 kW to 80 kW – higher powers enable imaging of heavier patients with shorter exposure times for even sharper images.
- > Automatic Exposure Controls (AEC) deliver faster switching and highly accurate exposures.

Wallstand

- > Counter balanced wall stand with optional tilting function provides smooth, effortless movement.
- > Lowest detector height enables all standing knee exams.



Digitizers

Any Agfa CR digitizer can be added as your acquisition device for greater versatility...



DR 14s / DR 10s

Dura-line XD 10 / XD 14 / XD 17

Detectors

Choice of fixed built in or wireless/tethered DR detectors.

Empowered by MUSICA

intelligent image processing



MUSICA image processing software enhances DR image quality

As a digital radiography system developed to address your most demanding productivity requirements, the DR 400's streamlined working procedures are enhanced by the inclusion of MUSICA software. Specially adapted and tuned to enhance DR image quality, MUSICA is body-part independent and provides excellent contrast detail.

This provides consistent image quality and improves the basis for efficient diagnosis.

Also available with next generation MUSICA

The advanced third generation of MUSICA intelligently renders exceptional bone and soft tissue detail simultaneously.

New technology improvements such as Fractional Multiscale Processing enhance both image quality and workflow for radiographers and radiologists. The improvements will support radiologists to get the most out of images at a lower dose.

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A preview of the acquired image can be viewed on the tubehead display (optional).

Excellent workflow, connectivity and integration capabilities

The DR 400 solution harnesses the power of both MUSICA with the MUSICA workflow to provide immediate previews that reduce time between exposures and thus deliver a higher rate of throughput. This results in a lower cost per exam and allows patients to be released more quickly.

With SmartRotate, the image is presented ready for viewing, directly and automatically. It uses a Deep Neural Net to identify the image content, and then rotate it correctly. With fewer manual post-processing actions to take care of, the operator saves time and can focus on imaging – not adjustments. What's more, the consistent presentation of the images in the PACS enables better comparison with priors.

In addition, the DR 400's intuitive and common user interface and unified look and feel for both DR and CR images eliminate time-consuming training. The DR 400's capacity for integrating with CR/DR provides excellent connectivity with RIS/HIS/PACS and imagers and gives you the choice of soft copy or hard copy outputs.

Top quality detector technology

The DR 400's use of top level quality image processing and needle detector technology delivers lower image noise and the smallest pixel size available for a full size detector.

And the DR 400's ability to reduce patient waiting time, provide excellent image quality, and overall ease of use results in a highly improved operator and patient experience.



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