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DR Retrofit

It only takes an instant to go DR

DR Retrofit with Dura-line detectors for
confidence, workflow and image quality



Imported and Distributed By :

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We could immediately implement DR, without replacing our existing equipment. We can also add digital detectors: in the future, I would like to have one for each bucky.

Dr. Ali Al Radaideh, Vice Dean of the Faculty of Allied Health Sciences



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No limits

Confident imaging, a more productive workflow and excellent image quality

The DR Retrofit with Dura-line detectors is built to support you with three key values – confidence, workflow and image quality – so you can focus on your patient, not your equipment!

Confidence: robust reliability in more situations

DR Retrofit with Dura-line detectors is designed to give you peace of mind as you work. The panels' IP67 waterproof rating and 1-meter drop height resistance let you work confidently and quickly without worrying about incidental damage, while the temperature range of 0-40°C makes them ideal for specialized applications, such as veterinary or military. Finally, the WPA2-PSK cybersecurity helps you keep patient data secure.

Workflow: diagnose more patients in a shorter time

DR Retrofit with Dura-line detectors comes with your choice of one or two batteries: the outstanding battery autonomy of up to 15 hours operating time (with 2 batteries) keeps you going throughout a shift, on one charge. The MUSICA® workstation also puts enhanced productivity at your fingertips, with an intuitive interface and fast image workflow. Three Wi-Fi antennas and a built-in hotspot provide for a truly portable experience.



Maximize your existing investments

From X-ray rooms to mobile analog units, it only takes a moment to go DR! The vendor-neutral DR Retrofit with Dura-line detectors lets you easily upgrade your existing X-ray modality to direct radiography (DR) while protecting your current investments. You get all the benefits of immediate, high-quality images, with a smart, seamless and budget-friendly solution.

And one DR Retrofit can be shared with multiple X-ray systems. Your mobile and stationary X-ray systems – including standard Bucky tables, floor stands and neonatal incubator trays – can become high-productivity DR systems, giving you a cost-effective path to DR anywhere across your departments.

No compromises: just fast, confident imaging

The Dura-line detectors, MUSICA® workstation and MUSICA® image processing software all come together to create a smooth, reliable workflow with high image quality.

Your DR Retrofit is up and running in no time: Automatic Exposure Detection (AED) eliminates the need for an electrical connection to the X-ray system, so you can use it seamlessly with virtually any X-ray system, right away. Because the workstation is easy to use, minimal training time is required, enabling you to be operational in just a day.





Mobile DR Retrofit for GE-AMX with non-invasive mounting kit (Docking & Locking) for laptop.

Mobile DR Retrofit for Siemens Mobilett with non-invasive mounting kit (Docking & Locking) for laptop.



Why empower your X-ray department with the DR Retrofit and Dura-line detectors?

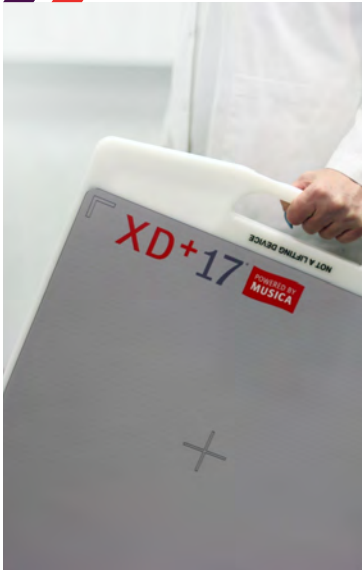
- > An affordable upgrade to DR while protecting your current investment
- > Confident imaging in more applications, such as pediatric and neonatal imaging, bariatric, extremities, veterinary and military applications, etc.
- > Versatile, robust Dura-line detectors for a smooth, efficient workflow
- > Excellent MUSICA® image quality and potential dose reduction
- > One DR Retrofit for multiple X-ray systems
- > Easy to install and service, remotely



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Our goal was to improve productivity and profitability. It is important for us to invest in technology, but we must see a return on that investment.

Dr. Ko Chia Lin, Administrative Superintendent,
Hospital e Maternidade SinoBrasileiro, Osasco, São Paulo, Brazil



Easy to install, learn and maintain

- > The intuitive MUSICA® workstation is easy to use, and requires minimal training time.
- > Automatic Exposure Detection (AED) eliminates the need for an electrical connection to the X-ray system.
- > Both the MUSICA® workstation and detector are battery-powered, so they don't require a power outlet.
- > The wireless detectors are fully portable and can be switched easily.
- > The DR Retrofit directly connects with any RIS/PACS/HIS via the MUSICA® workstation.
- > Remote service enables fast technical verification and solution delivery.

Click-On ergonomic handle can be mounted on the detector, for even easier transport and handling.

DR detectors: ease of use and maximum productivity

Your DR detector investment can be used for multiple X-ray systems, including those you buy in the future. With no cables, the wireless detectors can be switched and transported easily due to their compact design and light weight.



Transportable MUSICA® DR Suitcase for 10x12" detector and laptop empowered with MUSICA® workflow.

High image quality at a lower dose, for more applications

The DR Retrofit is all about versatility: you decide which Dura-line wireless detectors match your needs.

First, select your scintillator thickness: both offer versatility, robustness and excellent image quality, while the thicker scintillator of the premium-priced XD⁺ series offers even better image depth.

Then select the detector size for your applications:

- > The XD 10 and XD⁺ 10 fit into incubator bucky trays, making them convenient for neonatal and pediatric imaging, as well as for extremities and special examinations.
- > The XD 14 and XD⁺ 14 are ideal for pediatrics, extremities and special examinations.
- > The XD 17 and XD⁺ 17 can handle all GenRad examinations.

Whichever you choose, each Dura-line DR detector provides exquisite image quality, with:

- > Wireless, high-resolution, full-field AED detectors that work with virtually any conventional or mobile X-ray equipment
- > 3 Wi-Fi antennas to provide fast and reliable communication
- > Cesium Iodide scintillator that delivers optimum image quality and potential dose reduction³
- > Choice of one battery (7.5 hours of operation) or two (maximum 15 hours of operation)
- > A robust design that enables 1-metre drop height, and operation at temperatures of 0-40 °C
- > WPA2-PSK cybersecurity to protect patient data

Image quality: see more with less dose!

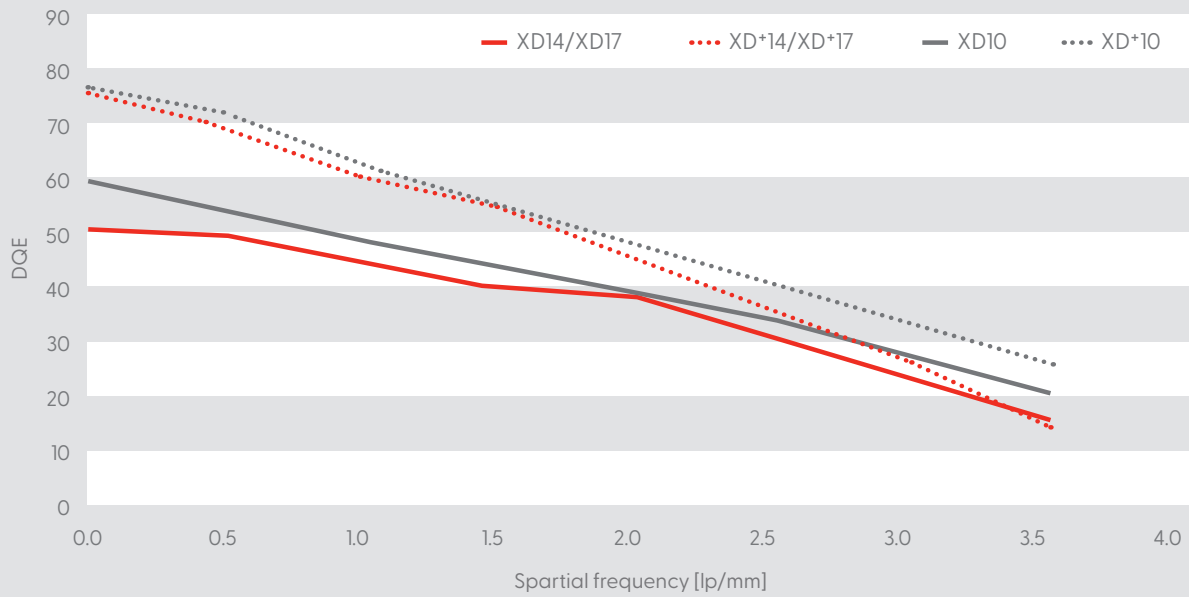
Our gold-standard MUSICA[®] image processing uses AI algorithms to deliver sharp images with amazing details, while 90%¹ modulation transfer function (MTF) gives better sharpness. The detectors' high Detective Quantum Efficiency (DQE) value of 75%² further supports high image quality even with less dose – a key for everyone, but especially pediatrics and neonatology.³

1 90% MTF only guaranteed for XD panels

2 DQE of 75% only with XD⁺ panels

3 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.

DQE specifications:



Detective quantum efficiency (DQE) of the Dura-line detectors, measured according to IEC 62220-1 (standard beam quality at $2.5\mu\text{Gy}$). Improved IQ at low dose for the XD+ line: DQE 75% @ 0 lp/mm*.



We were able to reduce radiation dose by around 30% without compromising on image quality.

Aleksandar Dobrilovic,
Medical Technology Director, Evangelische Kliniken Gelsenkirchen,
Gelsenkirchen, Germany



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Consistent MUSICA® image quality, greater detail

Our automatic, intelligent, body part-independent MUSICA® image processing has been specially adapted and tuned to enhance DR image quality. MUSICA® analyzes image data for bones and soft tissue separately, eliminating the need to compromise on either contrast or density. The resulting image quality shows greater detail and allows you to extract diagnostic information quickly, without any time-consuming manual image adjustment.

Potential dose reduction

The CsI detector technology provides the potential for radiation dose reductions of 50 to 60 percent depending on conditions³, while the high Detective Quantum Efficiency (DQE), even at low dose and high resolution, makes Dura-line detectors especially suited when dose reduction matters most – for example pediatrics and neonatology. The Dose Monitoring tool provides the ongoing exposure monitoring that is key to controlling dose. Dose Area Product (DAP) meters are also available as options.

First class service

Enjoy peace of mind with Agfa's first-class service support. Service agreements are available for simple phone and parts support through to advanced service level agreements that make lifecycle costs predictable.

You can rely on our worldwide team of 1900+ service professionals and authorized dealers to keep your new DR Retrofit solution running just as hard as you do.



Dura-line detectors come in three sizes. Fitting into standard Bucky trays, they can be easily removed for maximum versatility in all exams, patients and applications. The smaller detectors fit into incubator trays, for convenient neonatal and pediatric imaging. Each detector supports confident operation, a smooth workflow and excellent image quality.