Carestream

Pediatric X-ray Solutions

Gentle Imaging.

Big Innovations for Little Patients.

SMART IMAGING SOLUTIONS

A Special Focus on Pediatric Imaging.

Pediatric radiography presents some unique concerns. Imaging systems designed for adults can expose children to more radiation than what''s needed for high-quality images. Children are more vulnerable to radiation-induced cancers. Young patients also have a longer span of years ahead in which malignancies could develop.

In response, government agencies and organizations worldwide have issued guidelines to help imaging facilities develop dose-safety pediatric protocols. Complying with these, without sacrificing image quality or speed, presents a serious challenge. To meet it, you need a holistic, focused solution for pediatric imaging.

Advantages at a Glance

- Integrated hardware and software are tailored to the specific demands of pediatric imaging.
- These systems are designed in strict accordance with dose-safety guidelines.
- Exposure time is automatically determined to use the shortest exposure possible for effective results.
- Results are optimized at every stage of the pediatric imaging chain.

ACHIEVING A HEALTHY BALANCE.

You always want the best diagnostic images possible at the lowest dose achievable, especially when the patient is a child.

That's why Carestream developed our pediatric X-ray solutions – integrated hardware and software tailored to the specific demands of pediatric imaging. These solutions deliver all the efficiency and quality you require, while helping you meet the recommendations of government agencies, such as the Image Gently Alliance for Radiation Safety in Pediatric Imaging, and the safety principles of As Low As Reasonably Achievable (ALARA).

CONFIDENCE AT EVERY STEP.

Our solutions contribute to the optimal pediatric imaging outcome at every stage of the imaging chain: Image Acquisition, Image Processing and Image Review.

Image Acquisition

Flexible – Carestream pediatric imaging solutions let you tailor exams to individual patient characteristics. Take our CARESTREAM DRX Plus 2530C Detector. Custom-engineered and approved for pediatric applications, its smaller size fits easily into a neonatal incubator X-ray tray, and its cesium iodide (Csl) scintillator is excellent for dose-sensitive pediatric patients.

Exposure parameters are automatically adjusted for each patient based on seven age/weight categories from very low birth weight to adolescent. Exposure time is automatically determined to use the shortest exposure possible for effective results.

Fast – Our lightweight and wireless detectors facilitate rapid positioning and easy handling. Overall acquisition time is reduced to a minimum and more personal attention can be dedicated to each child.

Friendly – The CARESTREAM DRX-Evolution and CARESTREAM DRX-Compass DR suites have removable grids and low absorption tables. Filter wheels in the tube head provide additional X-ray filtration. The DRX-Revolution is ideal for pediatric and NICUs – bringing X-ray to the patients bedside. The Revolution's small footprint allows for easy maneuvering and the small tube head fits under isolettes. Whimsical, child-friendly graphics help put pediatric patients at ease.

Image Processing

Eclipse Imaging Intelligence capabilities offer robust processing features for images of optimal quality – while reducing quality errors and minimizing dose.

- **Pediatric Image Optimization and Enhancement Software** is designed with small patients in mind to automatically adjust and tailor the CARESTREAM EVP Plus image-processing parameters for any one of the seven pediatric body-size categories.
- **Pediatric advance-trauma capability** allows your team to work faster when every second counts. Immediate access to pediatric body size will speed workflow in trauma cases when time is of the essence.
- **Smart Noise Cancellation (SNC)** Ai isolates noise from the signal, then subtracts the noise – using lower dose and producing images that are dramatically clearer than what our standard processing provides. SNC delivers sharp, easier-to-read images for improved diagnostic confidence.
- **Tube and Line Visualization** creates a companion image with optimized processing for clearer, easier visualization of PICC lines and tubes to increase confidence that tubes and lines are placed correctly – and remain in position.

Workflow

- **Detector Verification** notifies the user when a non-selected detector sees substantial physical movement. Exposure is disabled until the user confirms the correct detector.
- **IHE Dose Reporting** collects and distributes comprehensive dose information to PACS – including DAP values, techniques and exposure indices.

Image Review

Carestream's image-review capabilities allow you to measure and compare exposure and other key parameters for each exam performed. This is ideal for quality education programs and continuous improvement:

- **IEC Exposure Index** allows quick assessment of the amount of radiation used to create the image.
- **Deviation Index** immediately compares the exposure used to your facility's specific target goal.
- **Dose Reporting** collects and distributes comprehensive dose information to PACS – including DAP values, techniques and exposure indices.
- **Total Quality Tool** uses a phantom and software to assure your detector remains within the standards of Image Gently and government guidelines for pediatric imaging.
- **Administrative Analysis and Reporting Software** queries all Carestream systems in the facility and reports exposure levels per exam and per tech, repeat rates, repeat reasons, techniques used and more.

Industry-Leading Performance: Meet Our Family of DR Detectors.

Our portfolio of DR Detectors includes wireless, shareable and fixed models to meet your demands based on exam type, detector size, dosage level and budget. Discover the right detector for your needs at carestream.com/detectors.

Ai Uses Artificial Intelligence technology.

NO MATTER WHICH ROAD YOU'RE ON,

WE'LL GET YOU WHERE YOU NEED TO GO.

SMART IMAGING SOLUTIONS

The Fastest Route to a Successful Imaging Future.
As you travel to the future of imaging, what's your next step? Perhaps you need to accelerate your X-ray workflow. Or add a new imaging solution to your facility to provide better patient care.

Wherever you're headed, we have the smart solutions you need: Full-digital imaging rooms and leading-edge mobile units. Wireless, shareable detectors and CR-to-DR retrofit kits. Affordable CR systems. Advanced digital imagers and our Managed Print Solutions service. And as always, the gold-standard in X-ray film technology.

Start Mapping Your Route Today.
From small clinics, urgent care facilities and specialty practices to large hospitals and imaging centers, every facility will find a Carestream solution to meet the most specific needs. Visit carestream.com and start your journey to greater productivity and a higher standard of patient care.

More Solutions from Carestream.
Carestream also offers Non-Destructive Testing solutions to help ensure quality and safety in the aerospace, petrochemical and other industries, as well as Contract Manufacturing to bring innovative coated products to market.

A Community of Service and Support.
For dependable service, look to our Customer Success Network. We work continuously to improve your imaging performance, help you to innovate as needs change, and make the most of your budget and resources. Carestream's Customer Success Network surrounds you with a dynamic team of experts, with a Single Point of Entry for easy, customized access to the right people in every situation. You and your patients will benefit from the expertise and best practices only Carestream can deliver.

Imaging Software Powered by Eclipse

Eclipse:
Harness the Power of Decades of Innovation.
Carestream's Eclipse is the engine behind our innovative imaging software. It uses AI technology and proprietary algorithms to significantly increase the value of the entire imaging chain, from capture to diagnosis.

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"Rx only"

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