



Reduce X-ray Scatter – No Anti-scatter Grid Needed!

When it comes to image quality, radiation scatter is a serious issue – fogging images, reducing contrast and obscuring details. Anti-scatter grids can reduce these effects significantly, but come with their own set of drawbacks: they require time-consuming positioning and alignment, and an increase in exposure to the patient.

Look to Carestream for the solution. Our DIRECTVIEW SmartGrid Software Option minimizes the effects of scatter with no need for a grid. This helps support patient safety and maintains fast, efficient workflow.

ADVANTAGES AT A GLANCE

- Reduced scatter for improved image quality and readability
- Lower radiation exposure to patients
- Faster workflow with no grid to attach
- Increased patient comfort

DIRECTVIEW SmartGrid Software Option

A Better Way to Reduce Scatter.

SmartGrid reduces the appearance of scatter without compromising workflow or patient safety. It utilizes an advanced enhancement algorithm to automatically process the image by estimating the low-frequency scatter throughout the image and removing it.

Many physical factors affect the properties of scatter, including the energy spectrum of the beam, the thickness/size of the object and collimation. Using empirical modeling, SmartGrid accommodates these factors via algorithm parameters which are tuned to approximate anti-scatter grid visual performance.



Cadaver abdomen imaged with **no scatter correction.**



Same view processed with a **conventional anti-scatter grid.**



Same view processed with Carestream's **SmartGrid Software.**

A Wide Range of Exams.

The AP views listed below utilize SmartGrid image processing as their default means of scatter reduction. SmartGrid can also be utilized with additional AP views on the system, but they will need to be configured by the key operator – as they are not included in the list of default studies:

- Chest AP / Portable Chest AP
- Abdomen AP / Portable Abdomen AP
- Pelvis AP / Portable Pelvis AP
- Hip AP / Portable Hip AP
- L-spine AP / Portable L-spine AP

Broad Compatibility.

The SmartGrid option is available for the following Carestream X-ray systems:

- DRX Evolution Plus
- DRX-Ascend System
- DRX Revolution Mobile X-ray System
- DRX-1 Retrofit System
- Quantum Q-Rad X-ray Systems

To learn more about additional radiology software options, visit carestream.com/software.

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 – based on thousands of customer engagements worldwide and our 100-year heritage in medical-imaging innovation.



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