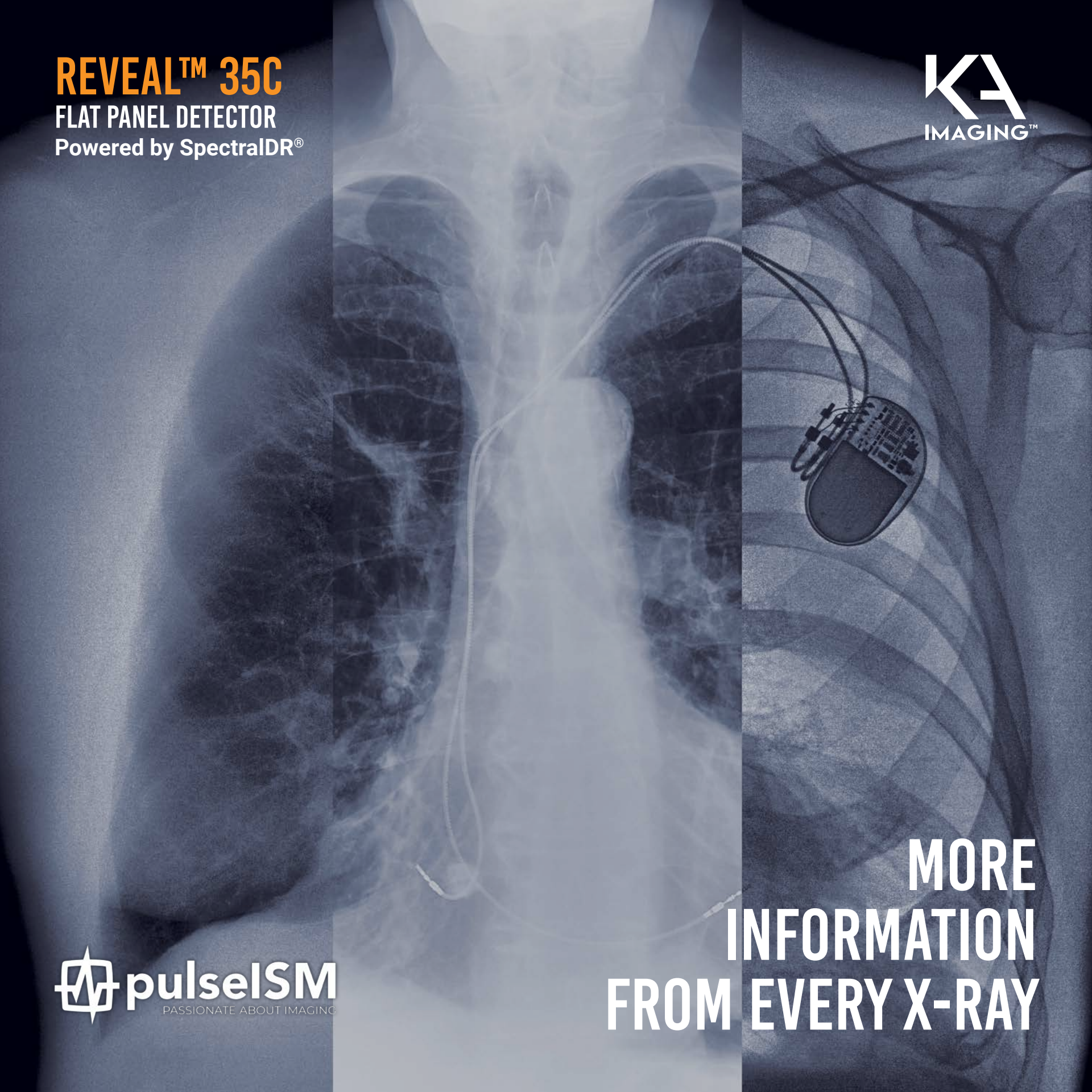
REVEAL™ 35C

FLAT PANEL DETECTOR

Powered by SpectralDR®

KA IMAGING™



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PASSIONATE ABOUT IMAGING

MORE INFORMATION FROM EVERY X-RAY


OUR VISION:
INNOVATIVE X-RAY
EVERYWHERE

REVEAL™ 35C

FLAT PANEL DETECTOR

SPECTRAL X-RAY, ACROSS CLINICAL ENVIRONMENTS



1 exposure | **3** images | **0** motion artifacts

Reveal™ 35C is a portable spectral X-ray detector designed to deliver advanced imaging across clinical environments. Powered by *Spectral***DR**® technology, it captures spectral information from a single standard X-ray exposure, enabling the generation of conventional, bone-selective, and soft-tissue images – without requiring dedicated rooms, specialized infrastructure, or changes to existing workflows.

Clinical studies[1] have demonstrated that dual-energy X-ray imaging can enhance visualization of a broad range of findings, including pulmonary abnormalities, line and tube positioning, pneumothorax, retained surgical objects, cardiac calcifications and other clinically relevant features – supporting more confident interpretation from a single X-ray exam.

*SPECTRAL*DR®: SPECTRAL X-RAY IMAGES FROM A SINGLE EXPOSURE

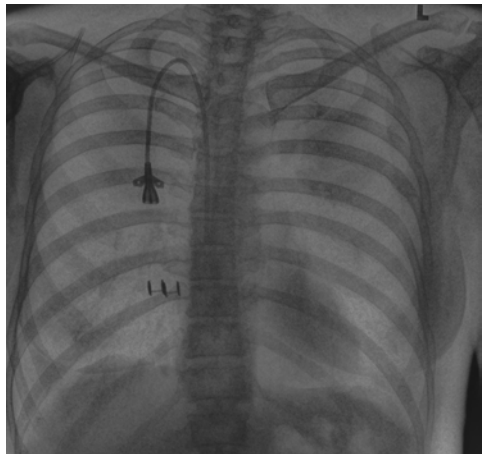
Reveal™ 35C delivers single-exposure spectral X-ray using *Spectral*DR® technology, generating conventional and bone/soft-tissue images without added dose or workflow changes. High image quality supports routine DR and improved visualization of key clinical findings.[1]



TRADITIONAL DR IMAGE



SOFT TISSUE IMAGE



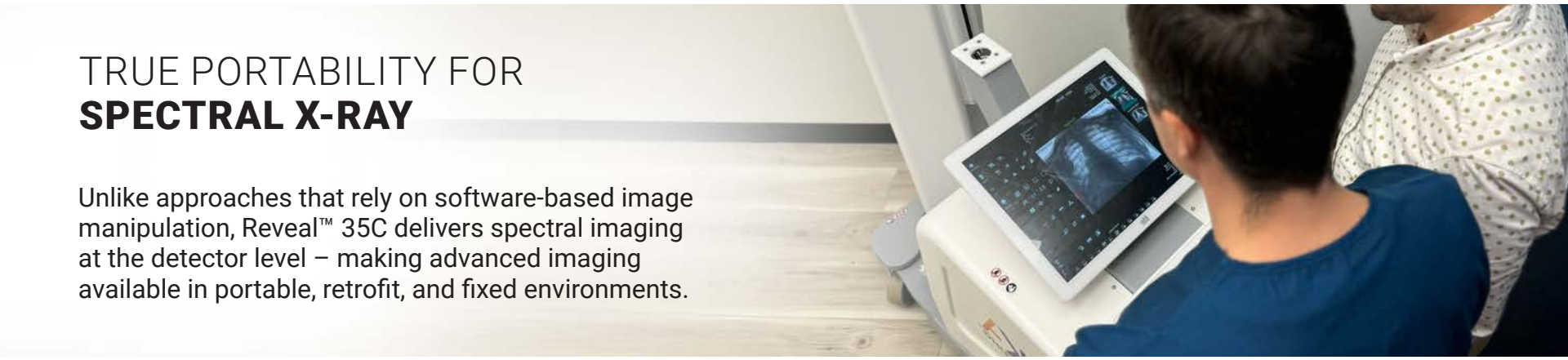
BONE IMAGE



DESIGNED FOR USE ACROSS **CLINICAL ENVIRONMENTS**

Reveal™ 35C extends spectral X-ray imaging beyond the radiography room. As a portable detector compatible with existing X-ray systems, it supports advanced imaging across care settings where mobility, speed, and workflow continuity matter most.

ICU • Emergency Room • Cancer Center • Cardiac Care • Long-Term Care • Urgent Care



TRUE PORTABILITY FOR **SPECTRAL X-RAY**

Unlike approaches that rely on software-based image manipulation, Reveal™ 35C delivers spectral imaging at the detector level – making advanced imaging available in portable, retrofit, and fixed environments.

CLINICAL EVIDENCE: INSIGHTS FOR HOSPITALS AND CLINICIANS

33% more pneumonia cases found
compared to X-ray thanks to dual-energy images[4]

43% more lesion visibility
when dual-energy images were included[3]

Increased confidence in 57% of ICU cases
thanks to dual-energy images with no added reading time[5]

Better visibility of lines and tube tips[5]

Up to 37% decrease in chest CT scans
for ICU patients[9]

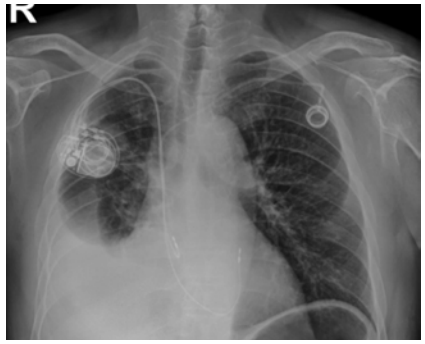
Opportunistic visualization of CAC
and valve/vascular calcium with up to a 61.8% increase in sensitivity compared to standard X-ray, and an AUC of 91% relative to low dose CT[10]

REAL **CASES**

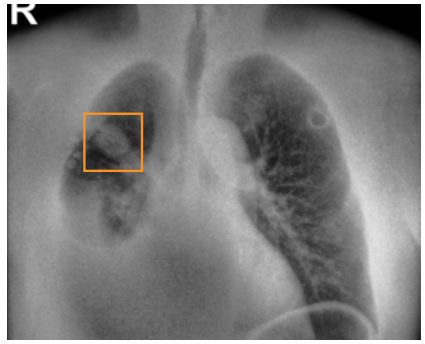
The following cases illustrate how spectral X-ray imaging with Reveal™ 35C can support image interpretation across different clinical environments. These examples highlight scenarios where access to spectral information from a portable detector may provide additional insight alongside conventional X-ray.

Mass Overlapping Indwelling Device

In this study, the dual energy soft tissue image revealed a suspicious soft tissue mass. In this case, the mass was overlapping the in-dwelling device (pacemaker).



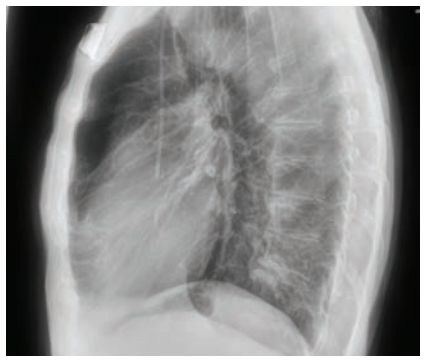
TRADITIONAL DR IMAGE



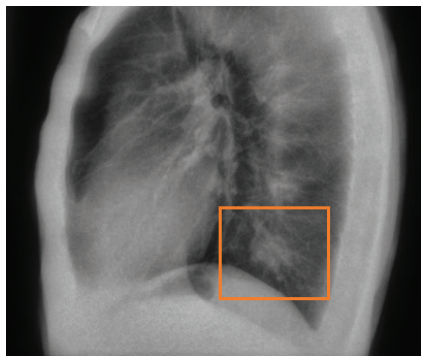
SOFT TISSUE IMAGE

Hidden Masses Discovered in Lateral Chest X-ray

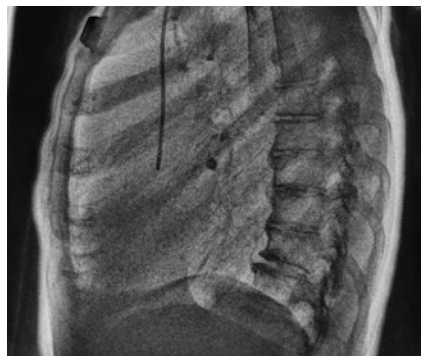
Upon reviewing the soft-tissue and bone dual-energy images, radiologists confirmed a mass in the lower left lobe, a calcified granuloma in the lower right, and a possibility of a new right lower lobe mass.



TRADITIONAL DR IMAGE



SOFT TISSUE IMAGE



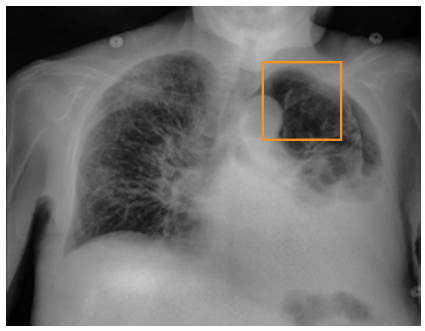
BONE IMAGE

Pneumothorax

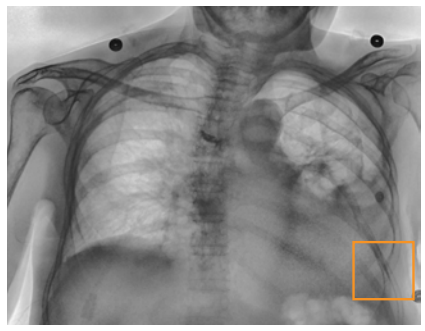
In this case, the conventional DR image shows subtle findings. The spectral soft-tissue image reduces overlying bone, making the pneumothorax more conspicuous. The corresponding bone-selective image highlights a rib fracture, a potential underlying cause of the pneumothorax.



TRADITIONAL DR IMAGE



SOFT TISSUE IMAGE



BONE IMAGE

CAC Visualization

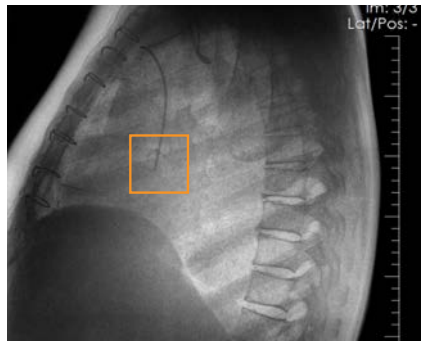
In this case, calcified coronary vessels are visible on the spectral bone-selective image acquired in a lateral projection. Spectral imaging from a single X-ray exposure enables assessment across lateral and other standard views without additional radiation.



TRADITIONAL DR IMAGE



SOFT TISSUE IMAGE



BONE IMAGE

Hidden Focal Opacity

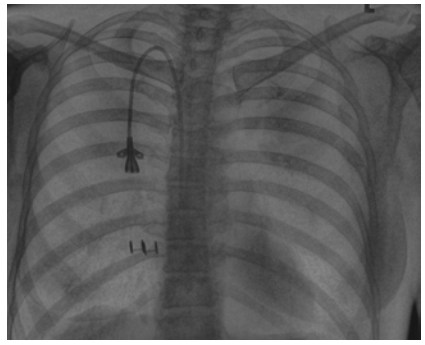
In this study, the conventional DR was read as normal. Upon viewing the Dual-Energy Soft Tissue image, the radiologist noticed a highlighted focal opacity indicative of pneumonia (confirmed on CT).



TRADITIONAL DR IMAGE



SOFT TISSUE IMAGE



BONE IMAGE

Subtle Fracture More Visible with Spectral Imaging

In this ankle case, the spectral bone-selective image improves visualization of a subtle fracture that is less apparent on the conventional DR image. Spectral imaging can help reveal stress-related or non-traumatic injuries that may be difficult to detect with standard radiography alone.



TRADITIONAL DR IMAGE



SOFT TISSUE IMAGE



BONE IMAGE

Visit the product page for additional documentation, including technical specifications.

https://kaimaging.com/medical-imaging-solutions/flat-panel-xray-detector-reveal-35c

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REFERENCES

The clinical examples and statements presented in this brochure are supported by published literature and internal evaluations. An up-to-date list of peer-reviewed studies and technical references related to Reveal 35C with SpectralDR technology is maintained on the KA Imaging website. Superscript reference numbers in this brochure correspond to the same references listed online, ensuring consistency between print and digital materials.

Visit the website for the full list:
https://kaimaging.com/medical-imaging-solutions/flat-panel-xray-detector-reveal-35c/#references

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