

CR HD5.0S

GENERAL DETECTOR

Cesium needle-based detector for Computed Radiography.
Compatible with tabletop CR 15-X digitizer.

- Up to 60% dose reduction with unique Agfa HealthCare Directrix cesium needle-based detectors*
- Superb image quality at lower dose
- For a broad range of general radiography applications including Full Leg Full Spine, neonatology and pediatrics
- Wide dynamic range, reducing retake rate
- User friendly and light weight detectors allow easy handling

CR HD5.0S General Detector is designed to be used with Agfa HealthCare's CR 15-X affordable, table-top computed radiography digitizers and can be combined with CR MD1.0 General Sets.

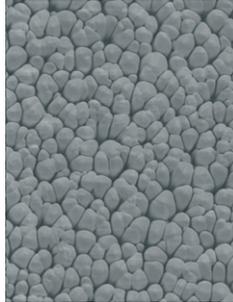
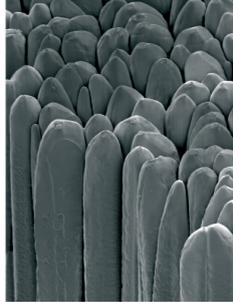
CR HD5.0S General Detectors are compatible with your existing X-ray unit, there is no need to invest in new exposure equipment, or to change your familiar way of working.

Up to 60% Dose Reduction*

By supporting cesium needle-based detectors, CR 15-X unites complete convenience with excellent image quality. With cesium needle-based detectors, however, the CR 15-X provides superb image quality and offers substantial dose reduction of up to 60%.



* Testing with board certified Radiologists has determined that Cesium Bromide (CR) and Cesium Iodide (DR) Detectors when used with MUSICA processing can provide dose reductions between 50 to 60% when compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa HealthCare for more details.



Needle-based detector.

Superb image quality and potential to reduce dose

CR HD5.0S Detectors include Agfa HealthCare's unique DirectriX needle-based detector technology within user-friendly and durable cassette. It uses a cesium crystal phosphor, which allows a higher packing density and layer thickness than is offered by powder phosphor in a binding material. Thanks to the crystal phosphor's reduced light spread, sharpness is also increased. The overall result is greater x-ray absorption and conversion efficiencies from the detector, providing the ability to significantly reduce patient dose.

Fewer retakes and potential to lower dose

The crystal phosphors on the CR HD5.0S Detectors have an extremely wide dynamic range. This results in high tolerance conditions and a larger degree of freedom in selecting the patient dose, as well as a drastically reduced retake rate compared to analog imaging. Thus, CR HD5.0S Detectors can lead to a substantial reduction of the population dose load.

Broad range of applications

CR HD5.0S Detectors offer a high image quality, the ability to manage dose and efficient workflow for general radiography applications.

Combining with Full Body Cassette Holder and Easylift, Full Leg Full Spine can be done in just one exposure.

In neonatal and pediatrics where it is desirable to obtain excellent diagnostic images at the lowest dose reasonably achievable (following the well-known ALARA concept used by x-ray technicians and radiologists), the CR HD5.0S Detector's workflow makes it both effective and efficient.

The different sizes of the cassettes allow easy positioning of your patient - a major advantage when working with children - and make the system ideal for portable applications, such as in neonatal intensive care.

Ease of use

CR HD5.0S Detectors are designed with a range of features that make them easy to use from start to finish. Their compatibility with existing X-ray tables means moving from analog to digital does not require investments in new exposure equipment, or changes to familiar ways of working. The lightweight synthetic material used for the cassettes is comfortable for both operator and patient.

Finally, the special cassette labels can be easily erased, even if a permanent marker was used, so the cassette is ready for new labeling quickly and effortlessly.

Technical Specifications

The CR HD5.0S General Detector includes a needle-based detector within a CR HD5.0S General Cassette.

CASSETTE MATERIAL

- Body: ABS (Acrylonitril butadiene styrene)
- Corners: TPE
- Shutter: PP (Polypropylene)
- Inner lining: felt

DETECTOR MATERIAL

- Phosphor composition: CsBr:Eu²⁺ needles
- Substrate: Aluminum and steel
- Typical luminescence 440nm

SIZES

- 14 x17 in (35 x 43 cm)
General (supporting FLFS)
- 9.44 x 11.81 in (24 x 30 cm) General
- 7.08 x 9.44 in (18 x 24 cm) General

IDENTIFICATION

- Barcode

CONFIGURATION REQUIREMENTS

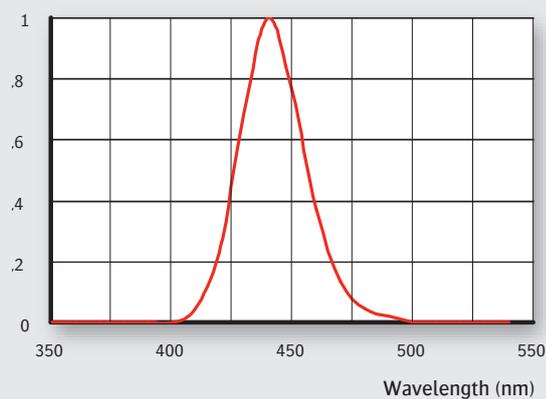
- CR 15-X digitizer

STANDARD

- Outer cassette dimensions comply to ISO 4090:2001

SPECTRAL INFORMATION CURVE

Luminescence spectrum



Agfa HealthCare, a member of the Agfa-Gevaert Group, is a leading global provider of diagnostic imaging and healthcare IT solutions. The company has nearly a century of healthcare experience and has been a pioneer on the healthcare IT market since the early 1990's. Today Agfa HealthCare designs, develops and delivers state-of-the-art systems for capturing, managing and processing diagnostic images and clinical/administrative information for hospitals and healthcare facilities, as well as contrast media solutions to enable effective medical imaging results. ■

www.agfahealthcare.com

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