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RENTAL INSPECTION

COMPUTERISED RADIOGRAPHY CR 35 NDT

Computed Radiography (CR) provides the digital equivalent of the conventional X-ray film while simultaneously providing the enormous advantages that consumables are virtually eliminated and the time to image is reduced considerably.

In addition the digital images can easily be archived and shared freely with other users. We emphasize the easy work flow and the ability to optimise the images by means of image software, thereby assuring improved analyses.

The CR technology consists of a three step process. The Image (storage) Plate is exposed with X=ray or Gamma radiation, which causes the IP phosphor layer in the plate to store the X-ray image. During the reading process of the plate in the scanner, a focused laser beam triggers the release of the stored X-ray image in the form of visible light.

The emitted light is captured and detected, then converted into electrical signals which are digitised and finally displayed as digital images on the monitor of the associated computer.

The internal in-line eraser purges the residual data from the IP, which is then ready for the next exposure.

Basically, the CR technology is understood to be the digital replacement for film. In conventional X-ray film, different resolutions due to the film and in part by differing exposure times are achieved. In the CR technology, however not only do the IPS, the film replacements plan an important role, but also the scanner and its resolution is of high importance.

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Technical Data	Image Plate Scanner	HD-CR 35 NDT	CR 35 NDT
BSR (Basic Spatial Resolution)	Dependent on plate (BAM-certified)	40 µm	100 µm
Laser	focal spot on plate surface	12,5 µm	30 µm
Dimensions (H x W x D)	39 x 38 x 52 cm	•	•
Weight	21 kg without transport case	•	•
Electrical	100-240 V/ 50-60 Hz, 140 W	•	•
Grey level resolution	16 bit, 65.536 Grey levels	•	•
Max. Plate size	35 cm wide, length virtually unlimited	•	•
Storage Temperature	-20 to 60 degrees centigrade	•	•
Operating Temperature	10 to 35 degrees centigrade	•	•
Noise Level	< 49 dB(A)	•	•
PC connection	USB 2.0	•	•
Laser Class	I (EN60825.1)	•	•
Software	DURR NDT D-Tect	•	•
IT-Requirements	Refer to www.duerr-ndt.de	•	•
Accessories	Transport case, battery option, imaging plates, cassettes, guide for narrow, long IPs	•	•

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