

Image Plate Scanner • HD-CR 7 NDT

Fully Automatic Image Plate Scanner For Radiographic Examination Of Small Parts



fully automatic • high resolution • fast • compact



Feeding of Image Plates



Ejection and Erasing



Dürr PCS-Technology

MADE IN GERMANY



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Time to change

With the HD-CR 7 NDT, Dürr NDT offers a fully automatic and high resolution CR-Scanner for radiological examination of small parts.

For the first time economic change from conventional film development to digital radiography is successful including the area of the examination of small parts.

The newly developed HD-CR 7 NDT incorporates all the advantages of conventional developing process and takes it straight into the future by adding the benefits of digital radiography.

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High Resolution

Thanks to the detecting laser spot with a minimum pixel size of 12.5 μm , brilliant images with highest significance are provided.

The perfect tuning of all components ensures a minimum defect detectability of around 50 μm . Thus even small defects are detected with high safety and unerring interpretation becomes possible.

PCS-Technology makes the difference

Now, with the PCS technology developed and patented by Dürr, images of the highest detail detectability are possible.

With PCS-Technology, the laser beam rotates with high speed and precise scanning of the Image Plate is secured by the built-in pentaprism at any time.

Almost 98% of the luminiscence ray is bundled in a highly efficient parabolic mirror system with a patented special coating, and is directed to the receiver.

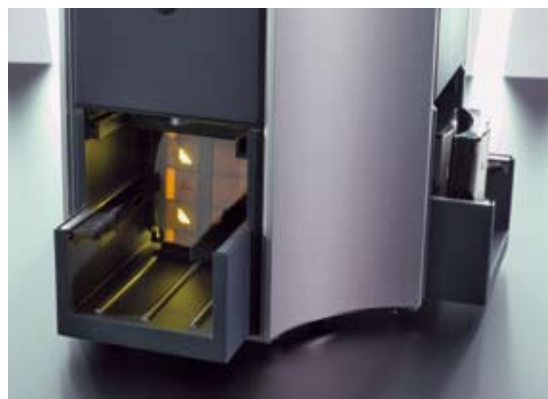
The result is high resolution images with a remarkable signal/noise ratio.

Automatic Scan process

The new HD-CR 7 NDT has two separate slots for the processing of the Image Plates. The time saved during by parallel processing is increased by a built-in buffer function.

So for example eight Image Plates can be processed completely within 30 seconds and the two ejection funnels store the Image Plates temporarily in their cassettes before their final removal.

The deleting of the Image Plates with presetted intensity has then also already been carried out.



Small and flexible

The scanner requires only a minimum of space and even mounted on the wall, it cuts a good figure.

Image Plates - the digital replacement of x-ray films

Image Plates continue to replace the conventional film. This not only because of the ability to use them several hundred times, but also because of the wide grey scale range the Image Plate provides.

The conventional film has around 700 grey-tones, but the Image Plate offers together with the HD-CR 7 NDT sensational 65,000 grey-tones.

Furthermore, the Image Plate tolerates under- and overexposure better than the conventional film. Thanks to that, unsuccessful x-ray exposures are the absolute exception.

Transporting and more

Special transport solutions are available for the HD-CR 7 NDT. The equipment is always packed securely in the case. Accessories have their own holder to assure that everything is available if needed.



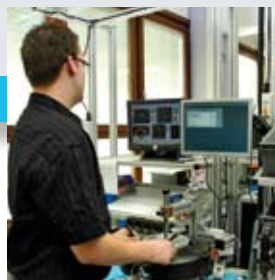
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Technical Data	Image Plate Scanner • HD-CR 7 NDT
Resolution	min. 25 µm with Image Plates by Dürr NDT
Smallest Pixel Size	12.5 µm
Dimensions	29 x 32 x 52 cm
Weight	12.5 kg
Current Supply	100-240 Volt / 50-60 Hz
Power Consumption	< 60 Watt
Max. Film Size	5.6 x 7.4 cm
Temperatur Range	18° - 45° C
Noise	< 50 db(A)
Connection	USB 2.0
Software	Dürr NDT Software, or other products if approved by Dürr NDT
Laser Classification	I (EN 60825.1)
IT- Requirements	Check on latest updates under www.duerr-ndt.de
Accessories	transport cases, mobile power packs, Image Plates, cassettes



Circuit Board Production



Calibration Process



Scanner Production Site

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