HD-CR 43 NDT • Brilliant images for heavy workload applications

Technical Data	HD-CR 43 NDT
Resolution	12.5 – 200 µm continuously adjustable
BSR (Basic Spatial Res.)	40 μm certified by BAM (with High Definition IP)
Grey level resolution	16 bit, 65.536 grey levels
Dimensions ($H \times W \times D$)	113 × 40 × 44 cm
	44.5" x 15.8" x 17.3"
Weight	55 kg 121.25 lbs
Electrical	100 - 240 VAC / 50 - 60 Hz, max 250 W
Temperature range	10 to 35 °C 50 to 95 °F
Noise Level	< 39 dB(A)
Max. Cassettes / h	~ 65
Laser Class	I (EN60825-1)
PC-Connection	Ethernet (TCP-IP protocol)
Software	DÜRR NDT D-Tect
IT-Requirements	For requirements refer to www.duerr-ndt.com
Accessories	Protection envelopes for all-weather application, different IP resolutions available



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www.duerr-ndt.com info@duerr-ndt.de scan GR-Code or visit www.duerr-ndt.de/cr43 HD-CR 43 NDT Automatic Image Plate Scanner For your heavy workload applications



HD-CR 43 NDT • Discover the benefits of Digital Radiography

What is CR? How does it work?

Computed Radiography (CR) is the acquisition of a digital image by using a Phosphor Imaging Plate (IP) in place of conventional film.

Key advantages of CR include:

- IP's are reusable
- No dark room or chemicals required
- Exposure and process times reduced
- Easy work flow and image optimisation with D-Tect software
- Simple to share and archive digital information

The CR technology consists of a 3-step process.

The Image (storage) Plate (IP) is exposed with X-ray or gamma radiation, which causes the phosphor layer in the plate to store the X-ray image.

During the reading process of the plate in the scanner, a focussed laser beam triggers the release of the stored image data in form of visible light.

The emitted light is detected, captured and converted into electrical signals which are digitized and finally displayed as a digital image on the PC monitor.

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

What is important?

With film radiography the only variable is the film. With CR we have different IP's and the ability to adjust up to 4 parameters within the scanner to optimise the image quality to suit the required inspection task.

High definition Computed Radiography

DÜRR NDT is the first company worldwide that has developed a scanner with a 12,5 µm laser spot. When used with correspondingly high resolution phosphor storage plates, this meets all the stringent requirements of EN 14784, EN 17636 and ASTM E2446.

The combination of high resolution image plates and this HD-CR device achieves the unique Basic Spatial Resolution of 40 μ m over all system classes for the first time. (Certified by BAM)

Adjustable resolution

The HD-CR 43 NDT gives the user the choice to select a 20 μ m scan resolution for weld inspection or 100 μ m scan resolution for a CUI application where speed and a short exposure really are the prime requirements. The stepless scan resolution ensures that the correct settings can be set to suit the application and inspection needs.

- Cost Reduction
- Improved handling
- Increased efficiency



Acceptance

Perfect image quality – film-like or better



Benefit

Significant reduction of consumables



Experience

Technology proven in more than 25.000 units

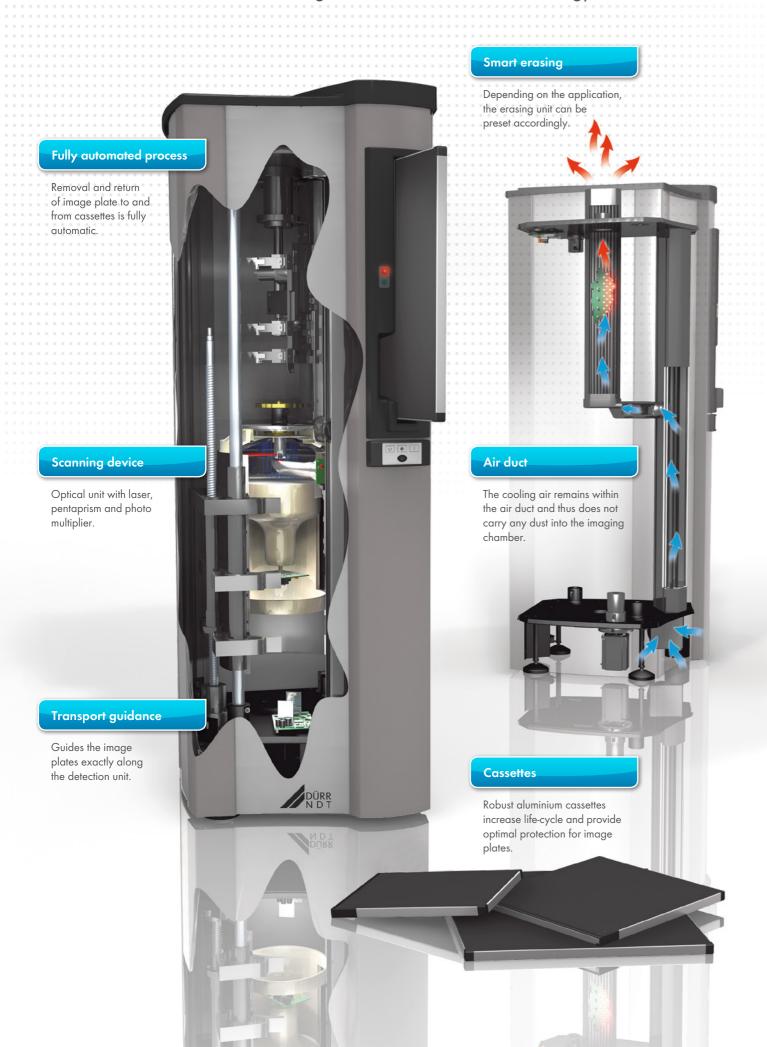


Development and production in Germany

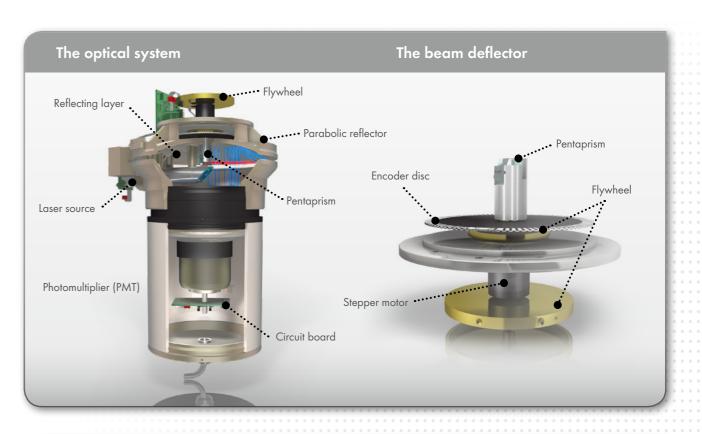
HD-CR 43 NDT • Certified and proven reliability

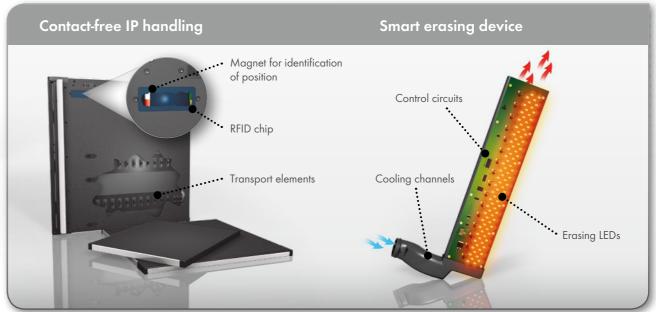


HD-CR 43 NDT • Brilliant images thanks to excellent technology



HD-CR 43 NDT • High-Tech for High Definition Images







ResolutionImage pixel pitch adjustable

from 12.5 to 200 μm



Easy and fast use through intuitive operating concepts



Data security
Simplified archiving
and data sharing



Guaranteed
Years or 25.000 cycle

2 Years or 25.000 cycles (Conditions apply)



sturdy cassettes

to your preferences

precision components

HD-CR 43 NDT • The perfect partner for your applications

A versatile software platform with solutions for every application



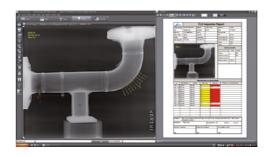
Calibration

Automatic calibration using a ball bearing or any other object with a known dimension, like the outer dimension of a pipe.



BSR

Automatic tool to determine the BSR of an image in accordance with EN17636-2.



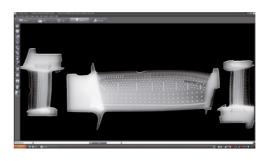
Report

Report function. Gives the user the opportunity to produce a report populated with the information and data along with thumbnail images. We provide the template to your requirements.



Wall thickness

Automatic measurement tool, single point or multiple measurements along a straight line or around a curve. Set up to give warnings when wall loss reaches a critical level.



Aerospace

or installed as single station

Ideal for Aerospace applications where consistent quality and highest resolution are required.



Tailored to fit your needs

A versatile software platform that provides the information and data which is relevant for your particular application and workflow.