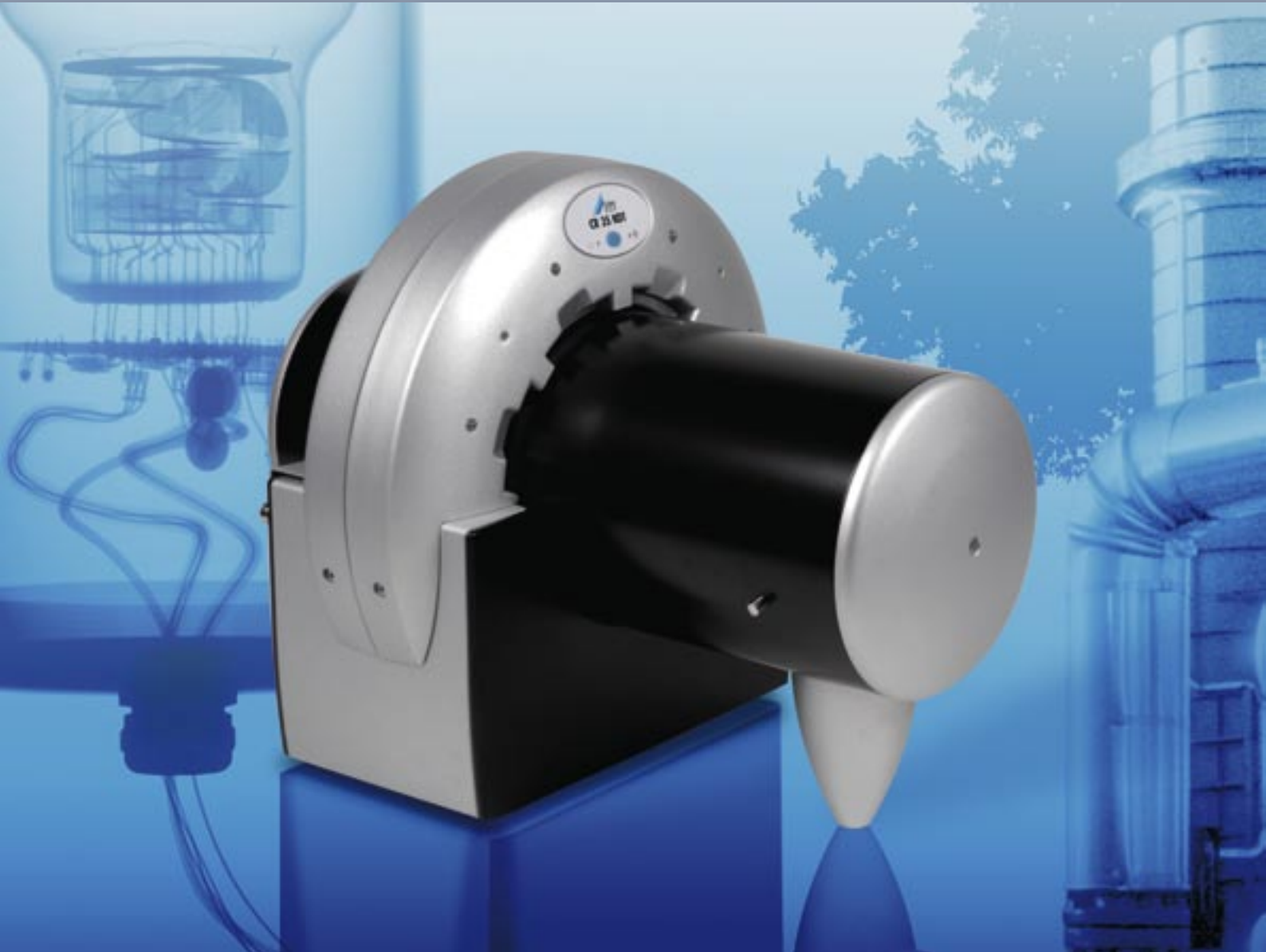


Image Plate Scanner • CR 35 NDT

Discovering the future with CR-Systems by Dürr NDT



high resolution • flexible • mobile • fast



Wall-thickness measurement



Weld seam testing



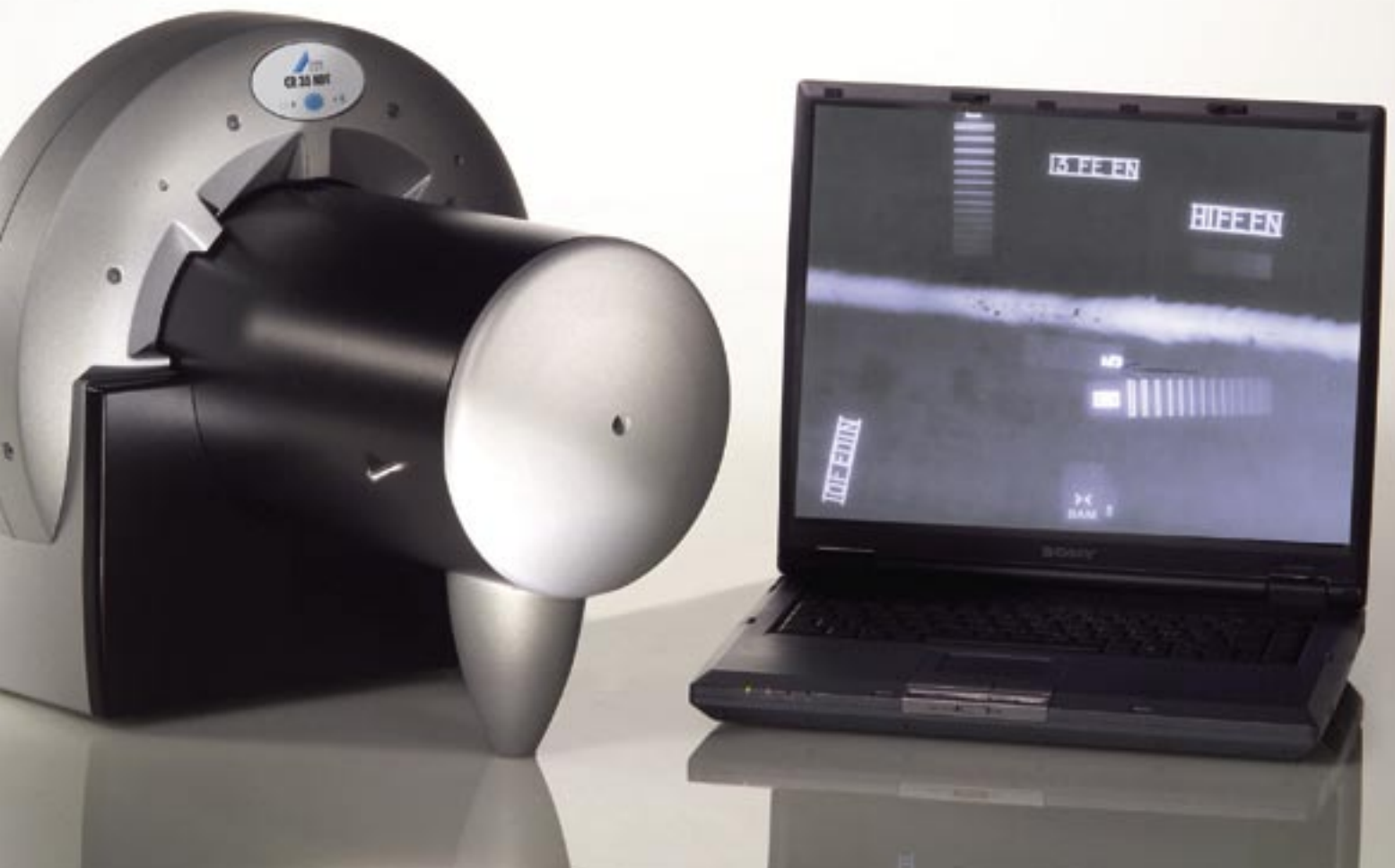
Cast inspection

MADE IN GERMANY



Image Plate Scanner • CR 35 NDT

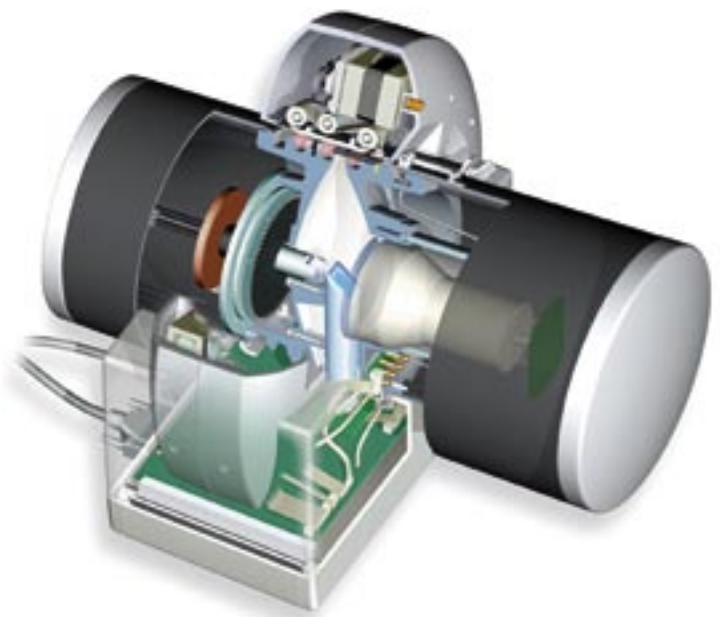
Time to change to digital radiography with CR-Systems by Dürr NDT



Time To Change

With the new CR-Systems by Dürr NDT the time has come to change from wet-chemical processing to digital radiography.

With the newly developed CR 35 NDT Dürr NDT is offering an Image Plate Scanner that incorporates all advantages of conventional developing processes and takes it straight into the future by adding the benefits of digital radiography.



HD-CR 35 NDT Certified For Weld Seam Testing

For Weld Seam Testing according to Standards DIN EN 14784, section I and II, Dürr NDT offers the special Image Plate Scanner **HD-CR 35 NDT**. This product represents the first Image Plate Scanner model worldwide which was awarded certification by the BAM Institute Berlin. This product fulfills all requirements of Standards EN 14784-1 and EN 14784-2. For more information please ask for our special product brochure or check out our website: www.duerr-ndt.de

Discovering the future with Dürr NDT

Dürr NDT-Systems for a safer future

Convincing Advantages Of PCS Technology

No matter what application. The CR 35 NDT is a reliable partner, convincing with advantages that leave conventional systems behind.

- Easy handling (as simple as X-ray film processing)
- High scanning process speed
- Laser-spot of only 12.5 μm (theoret. 40 Lp/mm)
- Operation at normal light conditions (max. 1,000 Lux)
- Highest dynamics (16 bit raw data)
- System is already today prepared to process future Image Plates generations



Image Plates – The Digital Replacement Of X-Ray Films

The advantages of CR-Systems by Dürr NDT are convincing:

- Image Plates of all formats known from common X-ray films can be processed with the CR 35 NDT
- Same flexibility as with conventional films
- Any x-ray source can be used
- Very large range of dynamics
- Reduced exposure time possible

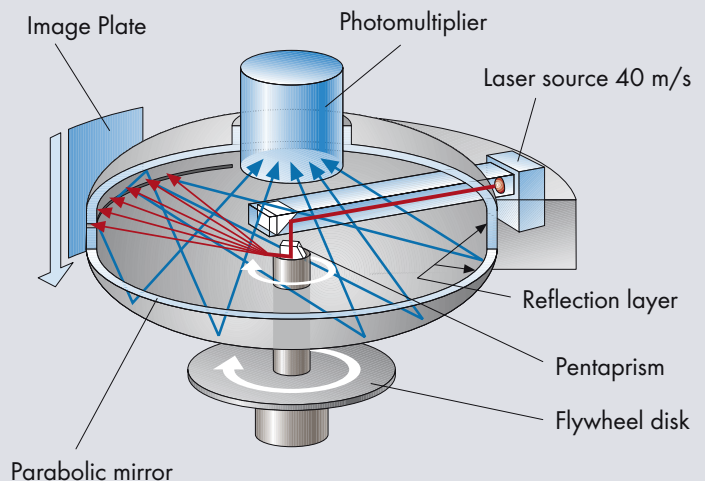


PCS Technology Making The Difference

PCS Technology by Dürr NDT re-defines known CR Technology. With the PCS (Photon Collecting System) the laser beam is rotating at high speed. The use of a Pentaprisma guarantees a laser-spot of a unique 12.5 μm diameter!

The luminescence ray (effective radiation) is being bundled in a highly efficient parabol mirror system with patented special coating, and is directed to the receiver (Photomultiplier).

Thus, the signal-/noise ratio has been remarkably improved and interferences were clearly reduced. The results are images of highest quality and an information value never before achieved with a conventional CR-System.



Discovering the future with Dürr NDT

Dürr NDT • Image Plates

Image Plates by Dürr NDT

The gray scale value of conventional films count somewhere a little over 700 gray tones. Semi-conductor sensors nowadays register between 1,000 and 10,000 in gray tones. Image Plates, however, show the largest number in gray tones.

The Image Plates by Dürr NDT offers up to 65,000 storable gray scale value data. In addition to that, they tolerate over- and under-exposure much better than any other technology.

Highest Spot Resolution

Thanks to a laser beam with extremely fine resolution of a mere 12.5 μm spot size, together with the highly efficient Dürr NDT Light-Bundling System PCS, it is possible to attain up to 20 lp/mm of high-resolution with special Image Plates (HD-IP).

Image Plates Of Almost All Sizes

A clever design enables the CR 35 NDT to process nearly every Image Plate format that may be required. Only the Image Plate's width is limited to 35 cm.

For length, however, there is practically no limitation. It is even possible to process 2 Image Plates with formats 10x24 or 10x48 parallel to each other. Processing times can thus be remarkably reduced.

Individual Formats On Request

Should a special application require the use of a deviating format, Dürr NDT is your reliable partner to be contacted for a solution, - even for smaller quantities.



Standard Image Plates:

- 18 x 24 cm (IP 18/24)
- 24 x 30 cm (IP 24/30)
- 30 x 40 cm (IP 30/40)
- 35 x 43 cm (IP 35/43)

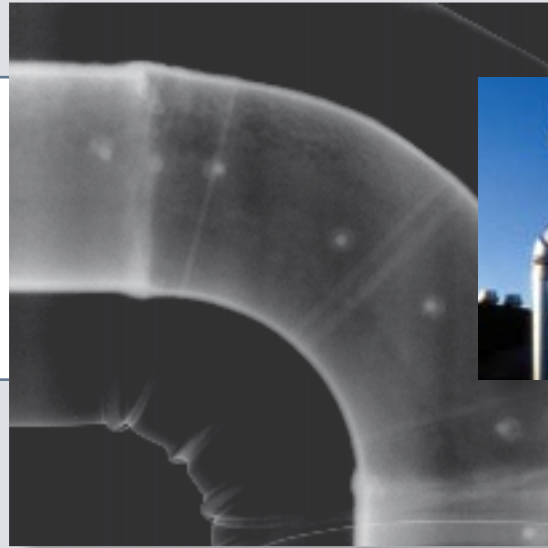
- 6 x 24 cm (IP 6/24)
- 6 x 48 cm (IP 6/48)
- 10 x 24 cm (IP 10/24)
- 10 x 48 cm (IP 10/48)

Discovering the future with Dürr NDT

Application Examples

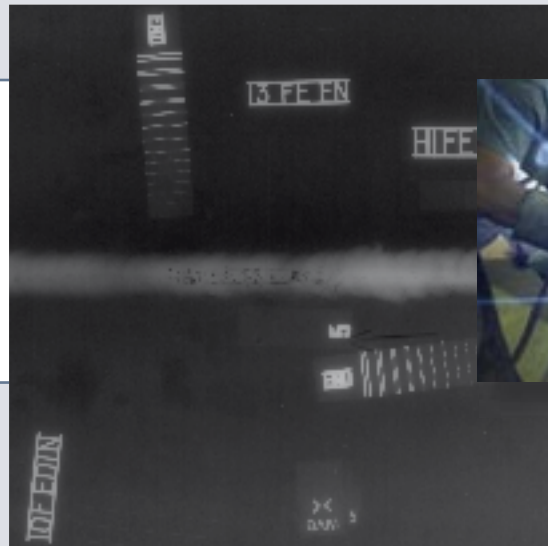
Wall Thickness Measurement

Shadow images can detect corrosion, deposits and pipe wall thinning on stream. Pipe diameters up to 400 mm are no problem, same goes for high temperatures.



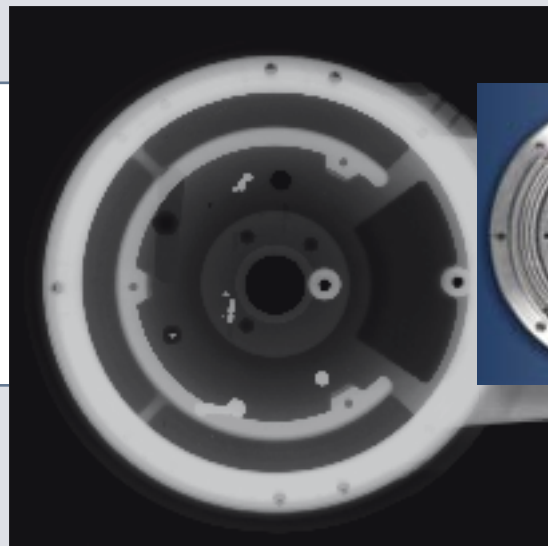
Weld Seam Testing

With CR Technology by Dürr NDT the quality of weld seams in production and repairs can be examined. Periodical consistency tests of stressed weld seams can be performed.



Cast Inspection

Production flaws in cast parts can be excellently detected by radiographic test. Bubbles, cracks and flaws will show up in clear detail and can thus be better analyzed.

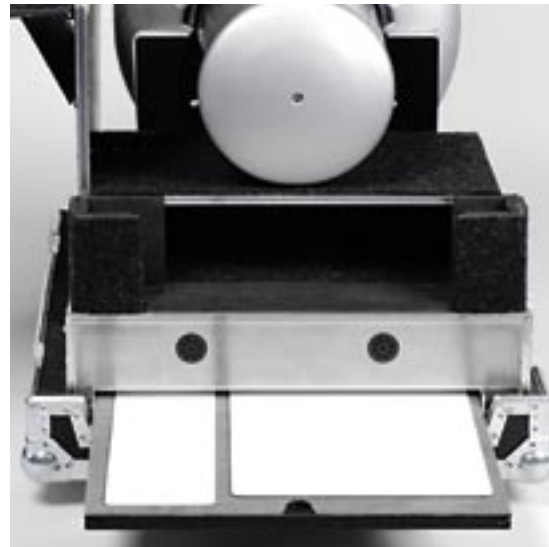


Discovering the future with Dürr NDT

Accessories • Transport Case

Transport Cases • Protection and more

Dürr NDT offers the right Transport Case for all needs. There are type versions available for the simple transport protection, featuring a strong set of rollers and a pull-out trolley-grip. Individualized transport- and application solutions with smart details can be offered upon request.



Scanner and Resetter in one Case

The Resetter integrated into the Transport Case allows erasing the information from any Dürr NDT Image Plate formats. Even Image Plates lengths of up to 120 cm are accepted by the Resetter because of the open design both sides.

Helpful details for mobile use

The flip-out pad allows working with laptop and mouse.



Hightech Mobility

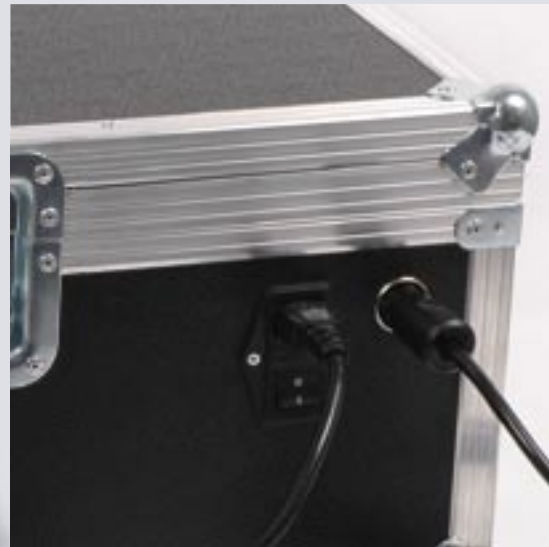
There is ample space for everything: Shown here the rest for the laptop or a monitor. Behind it, a mini-PC can be installed.

Discovering the future with Dürr NDT

Accessories • Mobile Power Supply

Unlimited Mobility

For the mobile use of all systems offered by Dürr NDT, various mobile power supplies are available.



Variable time of active mobile use

To fulfill the manifold requirements at time of active use of the Scanner and the Resetter, Dürr NDT delivers always the perfect solution.

Unlimited access

The Mobile Power Supply by Dürr NDT allows the uninterrupted function of the Scanner and the Resetter. It is also possible to use both systems while the power supply is connected with the on-board 12/24 Volt socket.

Accessories • Image Plate Cassettes



Resetter

The additionally available Resetter is designed for in-lab use. The Resetter is easy to mount under a board. Various other types are available upon request.

Image Plate Cassettes

Matching the respective format Dürr NDT offers the right cassette.

If there is any need of lead or ferrous foil, special cassettes can be offered.



Image Plate Scanner • CR 35 NDT

Discovering the future with CR-Systems by Dürr NDT

Technical Data	Image Plate Scanner • CR 35 NDT
Resolution	min. 25 µm depending on image plate types
Smallest Pixel Size	12,5 µm
Dimensions (HxWxD)	39x38x52 cm
Weight	19 kg (w/o carry case)
Current Supply	100-240 V / 50-60 Hz
Power Consumption	70 W
Max. Film Size	max. 35 cm width, length nearly unlimited
Temperature Range	10–35°C
Noise	< 49 dB(A)
Connection	USB 2.0
Laser Classification	I (EN60825.1)
Software	Dürr NDT Software, or other products if approved by Dürr NDT
IT-Requirements	Check on updates of requirements at www.duerr-ndt.de
Accessories	Transport Cases, mobile Power Packs, Image Plates, Image Plate Cassettes



Electronic plate production



Soldering process



Scanner production site

Dürr NDT GmbH & Co. KG
Pleidelsheimer Straße 30
74321 Bietigheim-Bissingen
Germany

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info@duerr-ndt.de

MADE IN GERMANY

Member of DGZfP



DEUTSCHE
GESELLSCHAFT FÜR
ZERSTÖRUNGSFREIE
PRÜFUNG E.V.

