

# HIGH-RES & WIRELESS D-DR 1025B NDT

BENDABLE DIGITAL X-RAY DETECTOR BUNDLE



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# D-DR 1025B NDT

## RUGGED AND RELIABLE FOR INDUSTRIAL APPLICATIONS

*Bendable and high-resolution X-ray detector, perfectly suited for inspecting circumferential weld seams on pipes with diameters of 150 mm and above.*



- ✓ 99 µm pixel pitch (5.0 lp/mm)
- ✓ 97 x 249 mm active area
- ✓ Suitable for X-ray and gamma sources
- ✓ Scintillator options for high resolution and high sensitivity
- ✓ Equipped with internal shielding for use up to 450 kV
- ✓ Innovative bending mechanism to replace traditional film
- ✓ Connection Unit with built-in wireless access point and battery
- ✓ Cordura® (NY) cover with various mounting options
- ✓ Exposure possible on both sides of detector
- ✓ Dust-tight and waterproof



*The bundle includes everything you need to start right away*

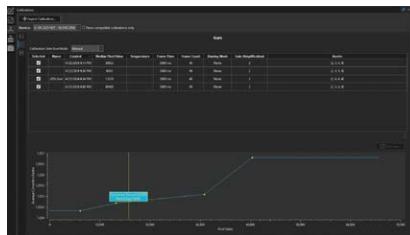
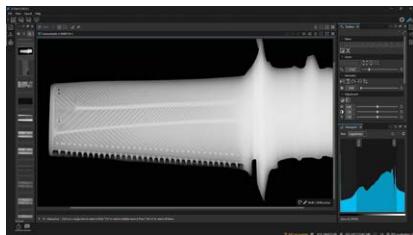


# D-Tect X

*The included D-Tect X software provides an optimal and time-saving NDT inspection workflow: from calibration and image acquisition to image evaluation and data import and export, everything you need is included and easy to use.*

With a comprehensive set of features, D-Tect X is fast, intuitive and easy-to-learn. DICONDE file format support ensures that images can be viewed and processed by any other DICONDE compatible system. Interfaces to instaNDT PACS and DRIVE NDT management software ensure seamless integration into an efficient digital workflow.

- Native DICONDE file format support
- Simultaneous reference image adjustment
- X-Filter: one-click image enhancement
- Image history: track all performed image operations and define presets
- Tools to assist with working with standards (ASME, ASTM, ISO)
- Unlimited image file size support
- Report generation via direct Excel export or DRIVE NDT
- Advanced histogram tools
- SNR/SNR<sub>N</sub> calculation
- Automatic duplex IQI detection and SR<sub>b</sub> determination
- Advanced wall thickness analysis
- Image filters to assist with evaluation
- Length, area and angle measurement tools
- Image annotations with customizable detail information
- Line profile tool
- Panel calibration (offset, gain, bad pixel)
- Multi image editing/processing
- Unrestricted image zoom



## Easy and reliable evaluation

Consistent quality and detection of the finest details are essential for NDT – specially designed filters and tools makes accurate and effective evaluation possible.

## Multi-gain calibration

Multiple gain calibrations at various radiation doses can be applied during acquisition in order to achieve the best image quality possible.



## Technical data

## D-DR 1025B NDT Bundle

<b>Active area</b>	97 mm x 249 mm (3.82" x 9.8")
<b>Bendable</b>	Minimum pipe diameter 150 mm (6")
<b>Dimensions detector / incl. Cordura® (NY) cover (H x W x D)</b>	182 mm x 453 mm x 20 mm 210 mm x 460 mm x 40 mm
<b>Weight detector / incl. Cordura® (NY) cover</b>	1.5 kg (3.3 lbs) 2.0 kg (4.4 lbs)
<b>Number of pixels</b>	981 x 2517
<b>Frame time</b>	0.5 s to 180 s
<b>Image transfer time</b> (wired/wireless)	1.5 s / 3 s
<b>Maximum energy</b>	450 kV (for long life in typical applications)
<b>Pixel pitch</b>	99 µm
<b>Maximum SR<sub>b</sub></b> (basic spatial resolution)	100 µm (Fine), 130 µm (Standard)
<b>Scintillator options</b>	GOS Fine, GOS Standard
<b>ADC</b>	16-bit
<b>Interface</b>	Gigabit Ethernet, WLAN: 2.4 GHz (802.11n) / 5 GHz (802.11ac)
<b>Battery</b>	Lithium-ion (11.55 V, 39.3 Wh)
<b>Operating conditions</b>	-20 to 50°C (-4 to 122°F), 10 to 90 % humidity
<b>Protection level</b>	IP67 (dust-tight and waterproof)
<b>Software</b>	DÜRR NDT D-Tect X
<b>Scope of supply</b>	Detector, rugged notebook (14"), D-Tect X software, Connection Unit, Cordura® cover set, bending limiter, Connection Unit cable (5 m), 2 batteries, battery charger, power supply, 2 AC power cables (plug type F/B), Ethernet adapter cable (7 m), Ethernet cable (15 m), TP-TP coupling RJ45 (Cat 6), System Control Unit (SCU) mini, SCU interface cable, SCU power supply, 4 cover magnets, 2 eyelet magnets, 2 carabiners (6x60 mm), 2 rubber fasteners, 2 tension straps (2 m), 2 elastic straps (1.1 m), 2 carabiners twistlock (10x110mm), cable reel (empty)



Optional heat isolation mat (60 x 52 cm), suitable for temperatures up to 250 °C, e.g. for radiographic testing of pipes during operation.



Example image: double wall examination, Ø 170 mm, t = 5 mm, X-ray, elliptic technique (ISO 17636-2 Figure 13a).

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