

scan-x
COMPUTED RADIOGRAPHY SYSTEM

discover HC



discover HR



The workhorse

of portable digital radiography in NDT

Robust and reliable – even in the most
challenging working conditions

Specialized for on-site inspections

Developed to withstand the wear and tear of industrial radiography and weighing just 21 kg, the ScanX Discover models offer a mobile and extremely rugged solution for demanding NDT environments.

Whether used in the field, in a factory setting or in a laboratory, ScanX Discover delivers outstanding digital images from inspections – and in just a few seconds. The images have a consistent quality so that results are constantly repeatable time after time. This means critical decisions can be taken in real time.

The optional Li-Ion battery pack can power the scanner during scanning, making it independent of a power supply. Thanks to its relatively low

weight it is easily carried and simply transported; when needed its carrying case with rollers offers further portability and convenience.

Equipped for harsh conditions

The system operates flawlessly even when working in dirty, damp, hot and cold conditions. Oscillation-dampening rubber pads isolate the optical system from vibrations and so ensure optimum image quality. A lightweight, extruded aluminum frame further protects the scanner from damage. ScanX Discover

is especially suited to operating conditions where mobility and dependability are crucially important.

Easy and intuitive handling

An image in three steps: expose the imaging plate, scan it and view it with D-Tect X software. The reusable imaging plates can be used with X-ray or gamma radiation sources and record the image information. By scanning the imaging plate, a digital image is produced that is displayed on a computer within a few seconds. At the same time the imaging plate is erased, making it ready for the next exposure.

Simple maintenance

Few moving parts with easy access for cleaning/maintenance

High throughput

Scan and erase in a single operation

Compact design

Lightweight, portable and rugged – ideal for mobile use in the field

Very reliable

Technology proven in thousands of units



Economic benefits

- Depending on use, imaging plates are reusable hundreds of times
- Simultaneous scanning of multiple imaging plates is possible
- No darkroom is necessary
- Neither films nor chemicals are needed, saving on maintenance of developing equipment, film storage and disposal

System features

- Smooth imaging plate transport
- Scans imaging plates up to 35 centimeters (14 inches) wide and of any practical length, including custom shapes and sizes
- The flexible imaging plates conform to the shape of the object
- Guides for extra long imaging plates
- Works with both X-ray and gamma sources including Selenium-75, Iridium-192 and Cobalt-60
- Adjustable settings for optimal dynamic range
- Automatic and manual erase functions
- Easy to transport in the carrying case
- Supports the latest industrial standards
- 30 micron SR_b certified by BAM (ScanX Discover HR)

Further processing in D-Tect X

All functions are covered from image acquisition and image evaluation to data import and export, everything you need is included.

Advantages of D-Tect X

- Saves time and money when you transfer your data electronically to consultant experts or customers
- Continuous development of image reviewing tools for all modes
- Compliance with the DICOM standard ensures the original images will remain accessible over time and the image data is compatible with all conformant systems
- Can be learned quickly and easily



Imaging plates in various formats



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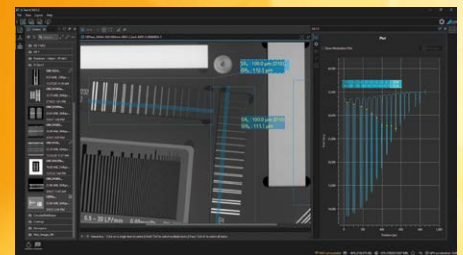
discover HC

HD image capture	✓	
Isotopes		✓
Laser spot	14 µm	50 µm
Optional battery	✓	✓
Portable	✓	✓



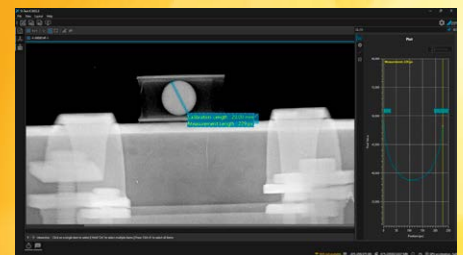
Wall thickness measurement

This optional tool determines the thickness at one or more points along the walls of a pipe.



SR_b determination

The basic spatial resolution (SR_b) can be determined very quickly and extremely accurately with this automatic measuring tool.



Calibration

Image calibration is precisely and quickly performed by using a reference object. Further measurements in the image are based on this calibration.



X-Filter

Intelligent one-click image enhancement filter produces optimized images highlighting crucial details for rapid analysis and evaluation.

Technical Data	ScanX Discover HR / ScanX Discover HC
Laser spot size	14 µm (ScanX Discover HR) / 50 µm (ScanX Discover HC)
Grey Level Resolution	16 bit, 65,536 grey levels
Dimensions (W x L x H)	39.4 x 45.7 x 35.6 cm (15½" x 18" x 14")
Weight	20 kg (44 lbs.) – with battery 21 kg (46 lbs.)
Electrical	110 – 240 VAC, 50 – 60 Hz
Laser Classification	Class 1 Laser Product. Compliance with FDA HHS 21 CFR 1040.10 and IEC 60825-1
Imaging Media	Phosphor Imaging Plates
Temperature Range / Humidity	-7 – +46 °C (20 – 115 °F) / 5 – 95% (non-condensing)
Software	DÜRR NDT D-Tect X
Battery (optional)	24 VDC
IT-Requirements	For requirements refer to www.scanx-ndt.com
PC-Connection	USB
Accessories	Hard Case, Soft Case, Imaging Plates, Plate Protectors, Cassettes

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Authorized ScanX Discover Dealer

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