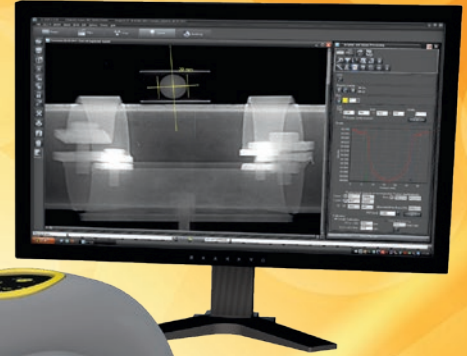


scan-x  
COMPUTED RADIOGRAPHY SYSTEM

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 ScanX View 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

#### Compact design

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

#### High throughput

Scan and erase in a single operation

#### 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)



Imaging plates in various formats



discover HR



discover HC

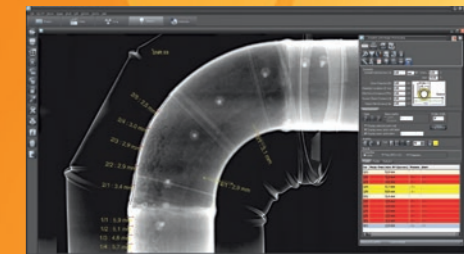
HD image capture	✓	
Isotopes		✓
Laser spot	14 $\mu$ m	50 $\mu$ m
Optional battery	✓	✓
Portable	✓	✓

### Further processing in ScanX View

All functions are covered from image capture, analysis and report generation through to export and archiving with database management.

### Advantages of ScanX View

- 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



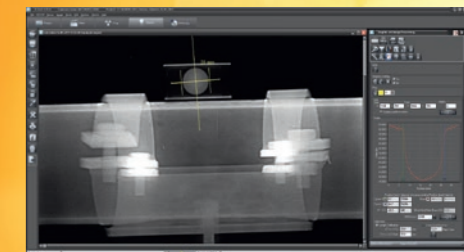
### Wall thickness measurement

This tool makes it possible to measure the thickness of pipe walls and to issue a warning when less than the minimum thickness is detected.



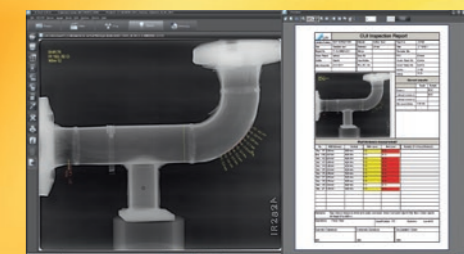
### $SR_b$ determination

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.



### Report

The report function contains information about the image, its origin and all measurements.

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

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