

## Durr NDT ScanX Computed Radiography System

*The Workhorse of Portable Digital Radiography in NDT*



There are 2 models available:

- ScanX Discover HR
- ScanX Discover HC

### ScanX Discover HR



The ScanX Discover HR has been certified by BAM as having the highest resolution in the NDT industry with 30 microns per pixel Basic Spatial Resolution. It easily addresses






### ScanX Discover HC



The ScanX Discover HC has the features, image quality and versatility to meet the most demanding needs. Its high contrast and adjustable scanner

and exceeds the most critical requirements of the Military/Aerospace, Space Hardware and Nuclear markets by producing the highest image resolution.

parameters make it ideal for isotope and X-ray applications, providing the image quality you need.

 <p><b>Acceptance</b> Perfect image quality – film like or better</p>	 <p><b>Cost-effective</b> Significant reduction in consumables</p>	 <p><b>Experience</b> Technology proven in thousands of units</p>	 <p><b>Crystal Clear</b> Precise laser spot for optimum image quality</p>	 <p><b>Few Moving Parts</b> Reliable – minimal maintenance required</p>
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Developed to withstand the wear and tear of industrial radiography and weighing just 46 lbs. (21 kg), the ScanX Discover models offer a mobile and extremely rugged solution for demanding NDT environments. The system operates flawlessly even in dirty, damp, hot or cold conditions. Oscillation-damping rubber pads isolate the optical system from vibrations and ensures optimum image quality. A lightweight, extruded aluminum frame protects the scanner from damage. The optional Li-Ion battery pack can power the scanner during scanning, making it independent of a power supply.

Whether used in the field, in a factory setting or in a lab, 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, meaning critical decisions can be taken in real time.

The ScanX Discover System is easy-to-use and has intuitive handling. An image is created in 3 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 on a computer within a few seconds. At the same time, the imaging plate is erased, making it ready for the next exposure.

## Features and Benefits:

- Smooth imaging plate transport
- Scans imaging plates up to 14" (35 cm) wide and 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 X-ray and gamma sources including Selenium-75, Iridium-192 and Cobalt-60.
- Depending on use, imaging plates are reusable hundreds of times
- Simultaneous scanning of multiple image plates is possible
- Adjustable settings for optimal dynamic range
- Automatic and manual erase functions
- No darkroom needed
- Neither film nor chemicals are needed, saving on maintenance of developing equipment, film storage and disposal
- Easy to transport in the carrying case
- Supports the latest industrial standards
- 30-micron SR<sub>b</sub> certified by BAM (ScanX Discover HR)



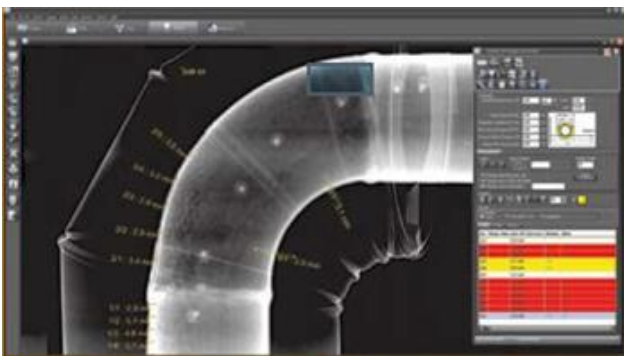
*Imaging plates in various formats*

## ScanX View Software

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

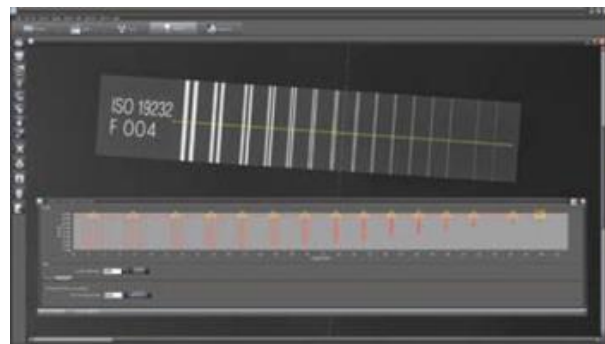
## Advantages of ScanX View:

- 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 DICONDE 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



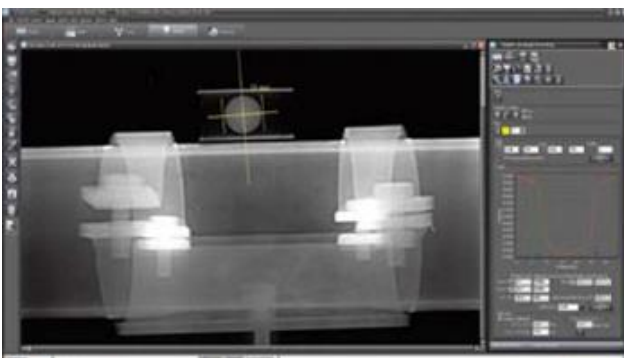
### Wall thickness measurement

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.



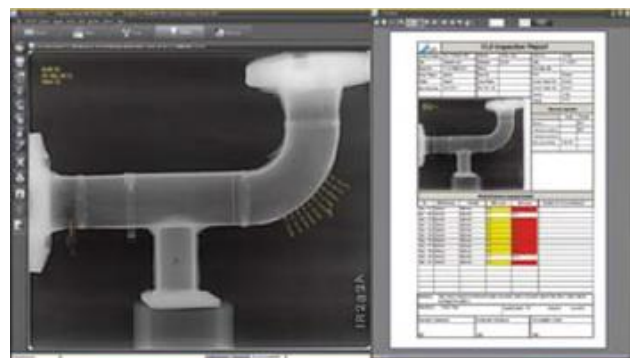
### SR<sub>b</sub> determination

The basic spatial resolution (SR<sub>b</sub>) can be determined very quickly and extremely accurately with this automatic measuring tool.



### Calibration

Image calibration is precisely and quickly performed 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.



## Specifications:

<b>Laser Spot Point:</b>	14 $\mu$ m (ScanX Discover HR) / 50 $\mu$ m (ScanX Discover HC)
<b>Grey Level Resolution:</b>	16 bit, 65,536 grey levels
<b>Dimensions:</b>	15.5" x 18" x 14" (39.4 x 45.7 x 35.6 cm)
<b>Weight:</b>	44 lbs. (20 kg) – with battery: 46 lbs. (21 kg)
<b>Power Supply:</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 Plates:</b>	Phosphor Imaging Plates
<b>Temperature Range:</b>	20°F - 115° F (-7°C - 46°C)
<b>Humidity:</b>	5 – 95% (non-condensing)
<b>Software:</b>	ScanX View
<b>Battery (optional):</b>	24 VDC
<b>PC Connection:</b>	USB
<b>Accessories:</b>	Hard Case, Soft Case, Imaging Plates, Plate Protectors, Cassettes