

TECHNICAL DATA

SCANX DISCOVER HR

|                      |                                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| Dimensions           | 15½" W x 18" L x 14" H (39.4 x 45.7 x 35.6cm)                                        |
| Weight               | 44 lbs. (20 kg) – with battery 46 lbs. (21 kg)                                       |
| 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 storage plates                                                              |
| Warranty             | One year                                                                             |
| Software             | ScanX View                                                                           |
| Battery (optional)   | 24 VDC                                                                               |
| IT-Requirements      | For requirements refer to <a href="http://www.allpro-ndt.com">www.allpro-ndt.com</a> |
| System Includes      | Power Cord and USB Cable                                                             |
| Accessories          | Hard Case, Soft Case, Imaging Plates, Plate Protectors, Cassettes                    |

ACCESSORIES

Hard carry case

Lightweight case for scanner transport



Image plates (IP)

IPs are available in different resolutions and all standard formats and, on request, in special sizes and custom shapes.



Authorized ALLPRO NDT Dealer



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scan-x

COMPUTED RADIOGRAPHY SYSTEM

discover **HR** ➡





WHAT IS CR? HOW DOES IT WORK?

Computed Radiography (CR) is the acquisition of a digital image using a flexible Phosphor Imaging Plate (IP) in place of conventional film.

Key advantages of CR include:

- IP’s are reusable
- No darkroom or chemicals required
- Exposure and processing times are reduced
- Easy workflow and image optimization with ScanX View software
- Simple to share and archive digital information

CR Technology consists of a 3 step process:

The imaging plate (IP) is exposed with X-ray or gamma radiation which causes the phosphor layer in the plate to store the image.

During the reading process the IP moves through the scanner as a focused X-ray beam triggers the release of stored image data in the form of visible light.

The emitted light is detected, amplified and converted into an electrical signal that is digitized, transferred to a computer and finally displayed as a digital image on the PC screen.

As the IP is scanned, the scanner’s internal in-line eraser removes residual data from the IP which is then ready for the next exposure.

What is important?

With film radiography there are few variables other than the film itself. With CR we have different IP types and also multiple scanner parameters that can be adjusted to optimize image quality for the required inspection task.

High definition Computed Radiography

ALLPRO NDT is the first company worldwide that has developed advanced scanner technology with a 14 µm laser spot. When used with correspondingly high resolution phosphor storage plates, this scanner meets all the stringent requirements of the EN14784, EN17636 and ASTM E2446 standards.

This combination of high resolution imaging plates and the ScanX Discover HR scanner achieves a Basic Spatial Resolution (BSR) of 40 µm across all system classes.

Adjustable resolution

The ScanX Discover HR gives the user the choice to select the scan resolution, from sub-20 µm for precision weld inspection to over 100 µm for CUI applications where short exposure time and speed are really the prime requirements. Stepless scan resolution selection ensures that the best settings can be chosen to suit individual inspection application needs.

- COST REDUCTION
- IMPROVED WORKFLOW
- INCREASED EFFICIENCY

WHY CR TECHNOLOGY FROM ALLPRO NDT?

ALLPRO NDT has made a commitment to develop and deliver products tailored perfectly to the needs of their customers.

Through a process of continuous improvement of existing products and development of innovative new solutions, ALLPRO NDT has very quickly become one of the market leaders in digital imaging for NDT.

➤ LEADING EDGE TECHNOLOGY

➤ WORLD CLASS SUPPORT

Throughput

Scan and erase in a single pass.

Reliable

Few moving parts and easy access for cleaning.



Image plates

IPs are available in different resolutions and all standard formats and, on request, in special sizes and custom shapes.



Acceptance

Perfect image quality – film-like or better

Cost-effective

Significant reduction in consumables

Efficient

Workflow tailored to your needs

Experience

Technology proven in hundreds of units



THE RUGGED LIGHTWEIGHT

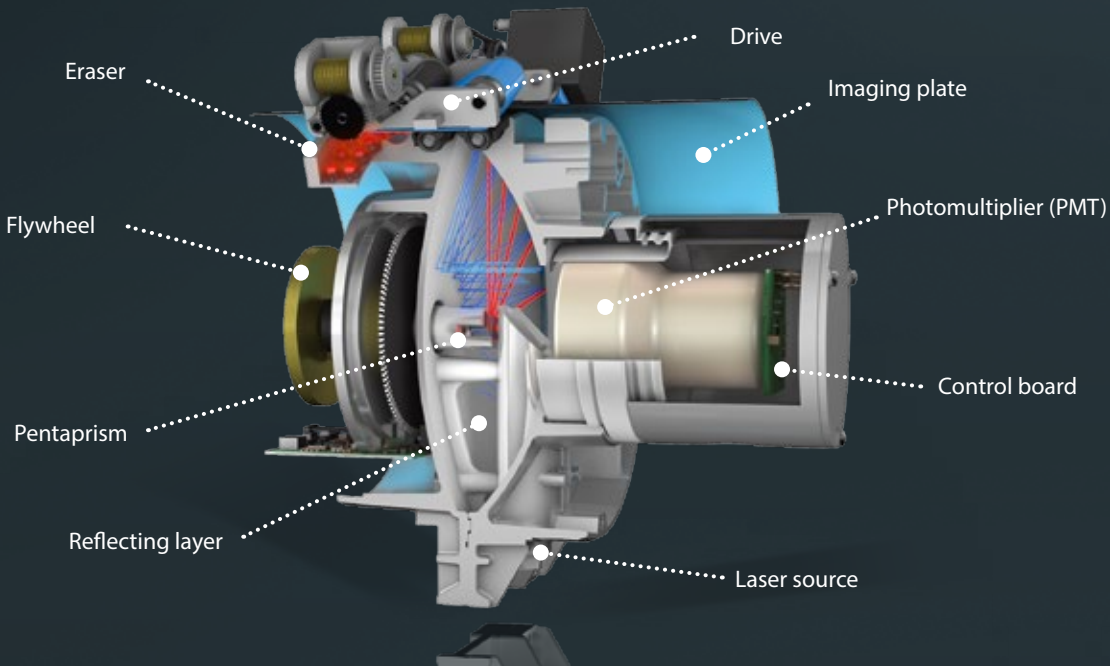
Designed for the rigors of industrial applications, the ScanX Discover HR is the most portable and rugged solution for demanding NDT environments. Constructed around a rigid extruded aluminum frame and clad in a protective rubber bumper, the scanner is protected against real-world conditions. The vibration damping feet isolate the optical system from interference and ensure optimum image quality, whatever the application.

The optional internal rechargeable battery allows truly remote operation, and the scanner is lightweight,

man-portable and simple to transport in any vehicle. Hard and soft cases are available for convenient transport of the ScanX Discover HR.

- PROVEN IN FIELD APPLICATIONS
- PORTABLE AND RUGGED
- OPTIONAL BATTERY FOR REMOTE OPERATION

THE OPTICAL SYSTEM



Non-slip surface

Lightweight rigid transport case protects the scanner during repositioning.

Robust design

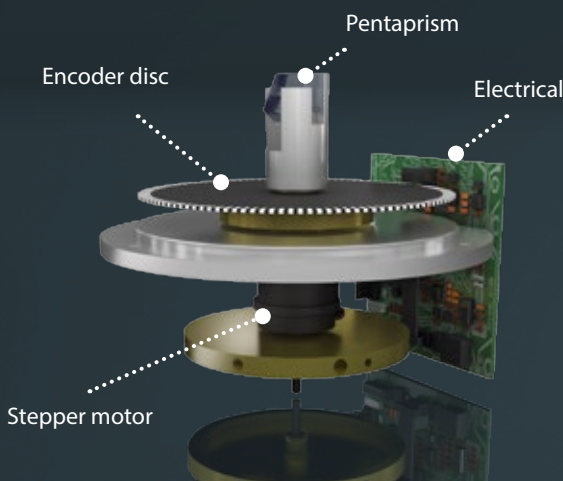
Light, portable and rugged – ideal for field applications.

Battery included

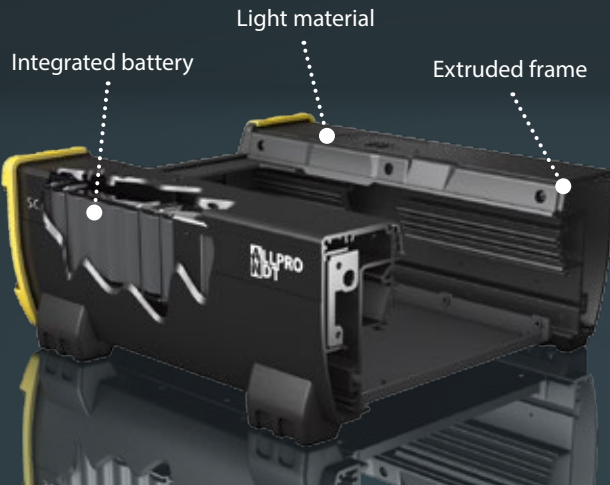
Integrated rechargeable battery allows truly remote operation.



THE BEAM DEFLECTOR



FULL MOBILITY



Crystal clear

Precise laser spot for optimum image quality



Precision engineering

No artifacts due to high-precision components



Complete erasure

Dual erase rings remove all residual data from plates



Few moving parts

Reliable – minimal maintenance required



## ONE DEVICE FOR ANY APPLICATION

Equally at home in a field inspection application, a production environment or a laboratory, the ScanX Discover HR has the features, image quality and versatility to meet the most demanding needs. By selecting the imaging plate and adjusting scanner parameters to match your shot technique, you can customize the image quality and exposure time to your exact requirements.

ScanX Discover HR also offers the most versatility for plate handling – scan plates of any practical length, custom plate shapes, scan multiple plates simultaneously, and erase plates in the same pass for optimum throughput.

And since our ScanX View software is tightly integrated with the scanner, it includes the tools needed to get the best results – time after time.



## SCANX VIEW SOFTWARE FROM ALLPRO NDT FOR ALL DIGITAL SYSTEMS

ScanX View software is completely developed in-house and is the perfect complement to all our digital imaging systems – flexible IP and cassette-based CR scanners, and flat panel DR detectors.

### DICONDE

Since ScanX View supports the DICONDE standard, the user can be certain that images can be archived, exported and then viewed on any other DICONDE compliant system, or simply transferred to that system. Optionally, ALLPRO NDT offers additional DICONDE functions such as PACS connectivity.

### ALL-IN-ONE

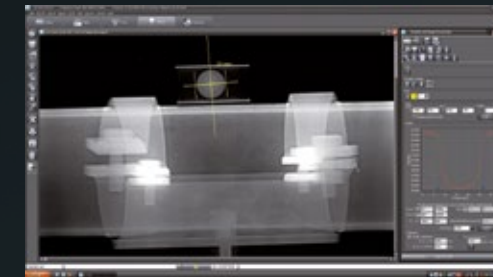
ScanX View is the all-in-one software solution. All functions from image acquisition, analysis and related report generation, to export, archiving and database management are included.

### Individually tailored, perfectly adapted

So that your workflow, which differs slightly from company to company, can be represented perfectly, we are happy to tailor an individual solution for your needs. The software will then perfectly meet your requirements and your established processes can be retained.



## A VERSATILE SOFTWARE PLATFORM WITH SOLUTIONS FOR EVERY APPLICATION



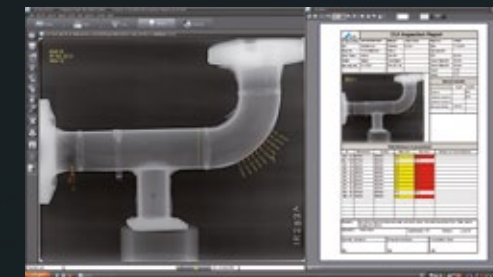
### Calibration

Image calibration using an object of known size automatically compensates for geometric magnification, ensuring measurement accuracy.



### SNR / BSR

Measurement tools are included which use established procedures to make industry-standard determinations of image quality.



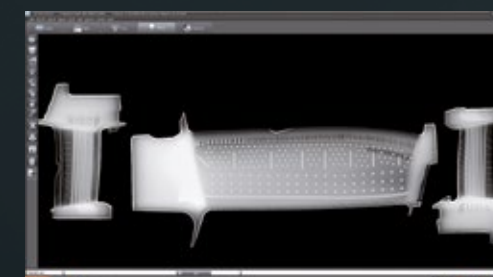
### Report

Gives the ability to produce custom reports populated with shot information and measurements, along with an image thumbnail. We provide the template to your specifications.



### Wall thickness

Automatic measurement tool makes single point or multiple measurements along a straight or curved pipe section. Set up to give warnings when wall loss reaches a user-defined level.



### Aerospace

Ideal for Aerospace applications where consistent quality and highest image resolution are required.



### Tailored to fit your needs

ScanX View is a versatile software platform that provides the tools, quality and information relevant for your particular application and workflow.