

# CarestreamNDT Digital Viewing Software Version 5.4

## For Non-Destructive Testing

THE ALL-IN-ONE SOFTWARE SOLUTION FOR NDT



- New tools to quickly achieve long-term stability testing for all DR ASTM E2737 requirements and CR ASTM E2445 Type 2 phantom.
- Optional peer-to-peer INDUSTREX Network Communications License. Ideal for increasing throughput in high-volume production environments.
  - Automatic image delivery for dedicated acquisition and interpretation stations.
  - Quickly scalable to multi-site locations and dedicated archiving.
- All-in-one modular software suite for CR and DR image acquisition. Reduces multi-modality training time.



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# Carestream NDT

INDUSTREX Digital Viewing Software Version 5.4

## ONE SOLUTION TO FIT ALL YOUR NEEDS

- Modular architecture: an all-in-one software suite that eliminates the need to purchase costly add-on modules for both CR and DR image acquisition.
- DICOMDE compliant: complies with industry standards for image storage, retrieval, and transmission
- For daily pixel map creation: INDUSTREX software has the ability to append to our factory map, append to an existing map, or make a new map.
- Easy Updates: Software updates to the Core Software version included over the life of your capture device. Eliminates future expense of purchasing software upgrades while ensuring you have the latest features and functionality.

## NEW TOOLS FOR DR

### Satisfy ASTM E2737 for Digital Radiography Detector Systems

- Long term stability testing and the tools necessary to support it:
  - Contrast Sensitivity Tool
  - Signal Level / Signal-to-Noise Ratio Tool
  - Offset Level Image Capture Tool

## NEW TOOLS FOR CR

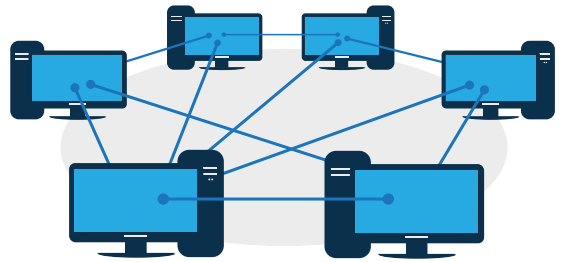
### Satisfy ASTM E2445 for Computed Radiography Systems

- Long Term Stability Testing
- Type 2 Phantom Resolution Calibration Tool
- Type 2 Phantom Signal-to-Noise Ratio Tool

## POWERFUL IMAGE ENHANCEMENT AND VIEWING

- Improved defect detectability with EDGE Display enhancements for both CR and DR
- Preset EDGE Display Filters based on settings found to be most useful in practice – view images with increased detail and clarity applied automatically as needed
- Custom EDGE Filter tool for pre-set image adjustment parameters
- Wall thickness with variance Measurement Tool

## OPTIONAL INDUSTREX NETWORK COMMUNICATIONS LICENSE



- Enable network communications and automatic image delivery
- Set up dedicated acquisition and interpretation systems
- Create peer-to-peer environment
- Image queue allows for images to be queued for faster image interpretation in a few simple clicks. Quickly apply appearance settings to entire queue.
- Improved meta data configuration interface
- Dedicated Image List works

## OPTIONAL IMAGE STORAGE SOLUTIONS

Carestream NDT has partnered with AyData to provide seamless archive solutions and services available at all levels.



The ayData NDT archive delivers a complete, scalable, and flexible indexed Digital Imaging and Communication in Non-Destructive Evaluation (DICOMDE) archive solution.

Ideal for on-site, multi-site, and off-site implementations, the ayData NDT archive works in any environment where there is a need for fast, reliable, and secure storage and retrieval of DICOMDE images and information.

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## ayData NDT Archive for HPX Digital Systems

**AS INDUSTRIAL DIGITAL RADIOGRAPHY CONTINUES TO GROW, SO DOES THE DEMAND FOR THE SECURE STORAGE AND EASY RETRIEVAL OF VALUABLE COMMERCIAL IMAGES.**

That's why Carestream NDT and ayData, two global providers of NDT DICOM data management, are partnering, combining Carestream HPX digital image acquisition products with the ayData NDT archive.

### **ACQUIRE. ANALYZE. ARCHIVE.**

Seamlessly integrating this powerful combination delivers a fast, easy, secure and reliable archive solution for NDT.



**Carestream NDT**

### **A powerful indexed DICOM archive solution for Non-Destructive Testing images and information.**

The ayData NDT archive delivers a complete, scalable and flexible indexed Digital Imaging and Communication in Non-Destructive Evaluation (DICOM) archive solution for non-destructive testing (NDT) images and information. With high performance features, the ayData NDT archive can improve the workflow in any environment where reliability, quality, and security are of key importance.

### **Powerful Performance**

ayData NDT archive's advanced indexing technologies provide fast, efficient, reliable and secure storage, retrieval, and validation of DICOM images. Utilizing a central database, searching by component, date, or inspector has never been easier. By leveraging the ayData NDT archive you now have a central digital "film vault" of all historical inspection data and records at your fingertips. Pre-inspection planning can easily reference prior inspection data and post-imaging analysis and reporting can be done by a central experts group and "in context".

### **Works in Any Environment**

Ideal for robust on-site, multi-site, and off-site implementations, the ayData NDT archive works in any environment where there is a need for fast, efficient, reliable, and secure storage and retrieval of DICOM images and information. Key industry applications include:

- Aerospace
- Defense
- Oil & Gas
- Transportation
- Shipping
- Manufacturing

### **Easy to Integrate**

ayData NDT archive's vendor agnostic, modular, and scalable architecture enables compatibility and quick and easy integration with DICOM hardware and NDT technology.

### **MINIMAL SYSTEM REQUIREMENTS**

#### **Hardware Option**

- Dell PowerEdge server
- Intel Xeon Processors
- PERC H710 RAID or QLogic SAN HBA
- 1Gb and 10Gb Ethernet support

#### **Virtualization Option**

- VMware ESXi 5.5 U1 or newer
- Intel Xeon Processor based host
- Minimum 18GB host RAM
- Redundant SAN storage with RDM LUN support

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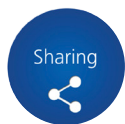


# ayData NDT Archive for HPX Digital Systems

## Advanced, Easy to Use Features Deliver Outstanding Results

<b>Audit Logging</b>	• Track all activity including image incoming storage, retrieval, send out, modify, and delete requests in complete process-independent logs.
<b>Easy to use</b>	• Easily and instantly search tags like component name, part number, inspection date and more utilizing our central database backed "index". No need to worry about confusing and complex naming conventions and/or folder storage. ayData NDT image archive's "one click to query" is fast and efficient.
<b>Flexible</b>	• Manages multiple long-term storage solutions and can scale to grow with your archival storage needs • Simplified multi-modal information sharing across the any number of end-users
<b>Industry Standard</b>	• DICONDE E07.11 compliant non-proprietary solution for digitally storing and retrieving NDT images and information.
<b>Meta data Editing</b>	• Fix data entry mistakes on the server without requiring a separate QA workstation • No tainting of capture timestamps when making changes
<b>Native JPEG-Lossless Compression</b>	• Enables storage space savings without compromising image quality or integrity.
<b>Related Scans</b>	• Immediately receive prior test images for the same component delivered direct to the inspection workstation without the need to search.
<b>Scalable</b>	• Scalable storage either directly attached or via Storage Area Network (SAN) for large corporate IT deployments • Can grow simply without the need to copy data when you are ready to expand • Server 'role' based-processes for large deployments • Powerful and petabyte scalable WORM storage with the SilentCube option
<b>Tailored</b>	• ayData meets with you to develop a customized solution to fit into your current/future NDT environment.
<b>Turnkey Installation</b>	• ayData will thoroughly plan and prepare for the install before arriving on-site, so you are ensured of a smooth and timely installation.
<b>Vendor Agnostic</b>	• Enables compatibility with other DICONDE hardware and software for quick and easy integration.
<b>Virtual Archiving</b>	• Segregate data into different silos for group or division isolation with different access requirements based on a programmable rule set.
<b>VPN Encryption</b>	• Keeps data traffic secure between sites. With the optional automatic off-site data storage, you can

## Benefits of a Digital Indexed Archive for NDT



- Central digital film repository for immediate access to all authorized Images
- Quickly compare previous and reference images
- Easily and securely share with colleagues inside the plant or around the globe
- Storing images in native DICONDE to ensure compatibility with systems from all manufacturers



- Automated verification mechanisms to provide assurance to customers and auditors of image integrity and authenticity
- Access controls to limit inspector access on a "need to know" basis
- Backup options to provide copies of your image data and avoid loss
- Elimination of artifact introduction from the mishandling and stacking of films
- Certified hardware options for long-term (20+ years) image retention



- Elimination of expensive film storage rooms and off-site film archiving costs
- Elimination of transportation costs and time delays
- Silver recovery's return on investment to pay for digital migration
- One solution to connect all of your digital inspection systems



- Immediate availability of images to all individuals and departments involved
- Elimination of the many steps in the film-handling process
- Elimination of image loss once it is digital
- Increased flexibility from digital image manipulation tools such as dynamic contrast adjustment and measurement
- Reduction of labor involvement

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