

Carestream HPX-PRO

For Non-Destructive Testing

THE ANSWER TO PORTABLE DIGITAL NDT.



Introducing the **HPX-PRO** Portable Digital CR System

The HPX-PRO CR system is built for high image quality, improved productivity and extreme portability. This next-generation system is a lightweight, portable CR imaging solution that is quick to deploy and rapidly produces high-quality images utilizing a new single-pass scan/erase protocol. The HPX-PRO's software incorporates a new user interface designed to get you set-up and imaging fast, with batch mode capability

to keep in pace with extreme process conditions like pipeline imaging. The new software tools also provide quick image analysis and customized reporting for generating unique customer reports in seconds. From hardware to software, to deep in the field and instant image sharing, the HPX-PRO is a complete system, designed to improve productivity.



Product size to scale.

Carestream spent a considerable amount of time working in the field with mobile x-ray technicians to help improve workflow. The HPX-PRO is only one piece of the total imaging solution. From shot time to final reporting, everything had room for improvement. And we met the NDT industry's challenge.

Make Work Flow.

HPX-PRO-formance in Action

PRO-Portability

The HPX-PRO is the smallest, lightest CR system designed specifically for NDT use. With an ergonomic, padded center handle it can be carried as easily as a carry-on suitcase. **Weighing in at just 35 lbs. and with a less than a 12-inch width (31cm) can be hand-held with ease.**



PRO-Flexibility

Finding power in remote locations can be a challenge, but not with the HPX-PRO. It can be operated off main power (110/220v) or by using a common 24v power tool battery. **Work where you need to without power limitations.**



PRO-Software

At the core of the HPX-PRO is Carestream's **INDUSTREX Software** with a new simplified user interface designed to allow for quick job set-up. Unlike the time-consuming job preparation using conventional film, with the HPX-PRO prepare for your workday in minutes instead of hours. And work faster in demanding, high-production environments.



PRO-Reporting

Combined with the **INDUSTREX Software Custom Reporting** tool, the HPX-PRO will help you finish your day a lot sooner, and with more productivity. Create re-usable custom forms and save a unique template for each customer. Once you have all of your shots done, with the click of a button you can create customer reports in a matter of seconds.



HPX-PRO At-a-Glance

1 Simple User Controls

Includes easy-to-read System Status, Power, and Ethernet Connectivity LEDs, with a separate LED scale for Battery Power.

2 Filter/Air Vents

Replaceable air filter to keep out dust and dirt.

3 Fold-up Feed Doors with Extensions

Both the entry and exit doors fold up to seal off the unit from dirt and dust when in transport or not being used. A magnet holds the doors closed. Each door has an extension to support up to a 17" long plate.

4 Carry Strap

Comes with detachable strap for over-the-shoulder carrying in transport.





5 Detachable Handle

Can be removed via two Phillips screws to reduce height. Mobile film labs don't have a lot of extra room and when you're trying to fit something between the bottom and top cabinets every inch counts.

6 Battery Holders

Includes powered mount for usage and storage mount for second battery, providing 4 hours of standby time and 45 minutes of imaging time per battery.

7 Mounting Bracket

Allows you to secure the unit to a mounting plate during transportation. The optional mounting bracket can be attached to the work surface enabling the *HPX-PRO* to be quickly snapped into a harness for transport on rough roads. At the end of the day simply remove it for safe storage in a climate-controlled environment.

8 Easy Ethernet and Power Connections

Set up the unit in less than 2 minutes. Simply connect an Ethernet and power cable and you are ready to work.



PRO-fessional Workflow for High PRO-ductivity

THE HPX-PRO WILL CHANGE THE WAY YOU WORK IN A MOBILE ENVIRONMENT FOREVER. EASY TO MOVE, EASY TO SETUP, EASY TO USE, EASY TO ACHIEVE HIGH-PRODUCTIVITY, AND PRICED RIGHT FOR EASY PAYBACK. GOING DIGITAL HAS NEVER BEEN THIS EASY AND AFFORDABLE.

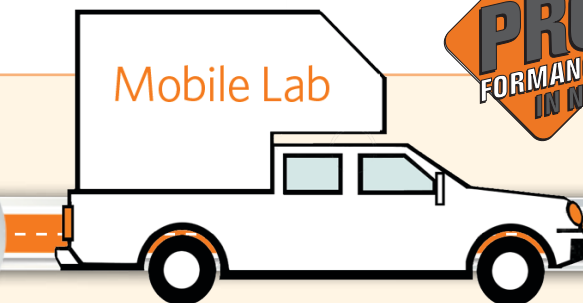


Portable & Profitable

Go Anywhere and Save On Overhead

The HPX-PRO is designed for portable industrial applications, from ergonomically engineered handles to the shock- and vibration-resistant engineering. It enables technicians to take Computed Radiography to the next level – anywhere they work – without compromising image resolution, sensitivity, or dynamic range.

1



With the HPX-PRO On-Board:

- Eliminate bulky chemicals and tanks taking up space
- Reduce the overhead cost of a large $\frac{3}{4}$ ton pickup to do field work
- No more need for a generator – lightening the load considerably
- Get deeper in the field with a smaller, more versatile, high-production digital mobile lab

The HPX-PRO is a Complete Workflow Improvement Tool from Start to Finish.

The system handles a wide range of imaging extremes and is designed to set up fast, operate simply, and deliver the quick results – from the first shot to the final report. At the end of the day upload digital images and reports to the network or e-mail to customers.



Generate Quick Reports

5



Customized Reporting

The HPX-PRO can make customized multi-line or single shot-style reports in a matter of seconds – increasing productivity.

When creating the work report, simply select the welds to be included and click “create report”. Generate a custom-made multi-line or single weld-style report within seconds with pre-selected data. No need to transpose data, no worries about making a mistake and no need to spend hours making reports.

HPX-PRO On-the-Go



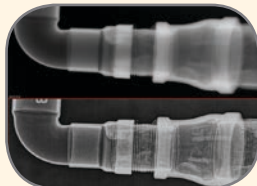
▶ Rapid Job Setup

Imagine being ready to scan 100 welds and being set up to image in a matter of minutes. With INDUSTREX Software setup of customer parameters, automated electronic FLASH creation on each image and automatic incremental shot numbering make getting ready to shoot fast and easy.

2



Prepare for the day in just minutes with a user-friendly interface. In Batch Mode, define shot parameters and input how many welds to shoot. Set-up the weld numbering and turn on the auto increment feature to name welds as plates process.



For repetitive work, in many cases you can pre-set a custom display filter to be automatically applied to each image as it gets displayed. Improve consistency across shots or define how you want inspectors to view an image. One-click assignment of the interpretation makes the approval or rejection as simple as a mouse click.

4

◀ Image, Analyze & Approve in Seconds

Batch Mode was added to our INDUSTREX software so the HPX-PRO can keep up with film. Unlike other CR systems, the HPX-PRO scans and erases in one pass, thus eliminating wait-time for the plate to come back out during erase.

The HPX-PRO is designed to process a weld a minute*. Including scanning, erasing and image display on the monitor with a pre-set EDGE filter already applied. Highly-skilled, seasoned technicians can even approve a shot during scan preview. *Based on 5-3/4" imaging plate length.



▼ Shot Time Improvement

3



Shoot faster, radiate less and keep your source longer.

In certain circumstances, it's possible for CR to reduce exposure time.

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IMAGING PLATES

When it comes to portable digital imaging with the HPX-PRO, there is no question that you also need rugged imaging plates that can withstand harsh mobile environments. Get the flexibility and sharp contrast of NDT film radiography without the wet processing. Like all of our imaging plates, the HR-PRO lets you capture and read digital images quickly in almost any environment and share them digitally. HR-PRO digital imaging plates have been designed to work together with the HPX-PRO Portable CR system to achieve maximum life in these challenging conditions.

New INDUSTREX Flex HR-PRO Digital Imaging Plate

IMPROVED PERFORMANCE FOR:

- ✓ Scratches
- ✓ Abrasions
- ✓ Cleaning
- ✓ Chemical & moisture resistance
- ✓ Cracking resistance

IMPROVED!

This specialized line of laminated high resolution (HR) imaging plates are designed for outdoor industrial field radiography, to provide a longer usable life and improved overall ROI for HPX-PRO users. This plate can be used in either gamma or x-ray radiography applications, and has the same image quality as our current HR plate. Available in a full range of sizes for the HPX-PRO, contact your dealer.

HPX-PRO PRODUCT SPECIFICATIONS

Feed Mechanism	Internal horizontal roller pairs
Connectivity	Ethernet
Network	DICOM and DICONDE compliant
Air Flow:	Filtered, positive air flow in scanner for temperature control
Scanning Optics	Located above imaging area eliminating gravity driven particulates
Erase	LED erase lamps for high efficiency and low power consumption
Maintenance	User serviceable wear parts
Calibration	Fully factory calibrated and ready to operate
Scan Resolution	25 micron, 50 micron & 100 micron
Plate Sizes	Maximum 6-inch width x maximum 96-inch length
Software	INDUSTREX (installed and tested prior to shipping) Windows 7 Ultimate 64 bit
Filter	Carestream's EDGE image filter offers users a choice of display filters while never modifying the original source image. Image can be sharpened or enhanced with gray scale equalization.
Monitor	Laptop, 3MP (color) or 5MP (monochrome)
Chassis	Rigid aluminum construction with vibration damping feet
Power	100-240 VAC (Automatic Level Sensing)
Battery	24 volt standard tool battery
Battery Life	4 hour standby/45 minutes active scanning and erasing per battery
Warranty	1 year parts and labor
Installation	Ships complete and can be quickly and easily installed on-site by customer
Dimensions	16-inches (41cm) x 13-inches (33cm) x 12-inches (31cm).
Weight	35 lbs (16 kg).