

Carestream

DRX-Evolution Plus



# Powerful. Versatile. Modular.

Our Flagship X-ray Room Optimizes Image Quality  
and Speeds Workflow.



SMART IMAGING SOLUTIONS

# A Proven Solution. Exciting New Capabilities.

Since its introduction, the CARESTREAM DRX-Evolution Plus System has set a benchmark for imaging performance in hospitals around the world.

Today, it still offers the power of the X-Factor, with a wireless DR Detector that works across virtually all of your imaging systems. It still features modular design, to fit your individual space, workflow and budget. And it still protects you from technology obsolescence with its future-proof design.

But now, the DRX-Evolution Plus delivers even more: a full range of new features and options that makes it more powerful, more dependable and more affordable than ever.

## Benefits at a Glance

- Pristine image quality supports accurate diagnoses.
- Choose from fully motorized or manual operation.
- Future-friendly, modular design grows with your needs.
- Extended tube-column range and the high-weight-capacity table provide extra flexibility.







## Experience the Power of DRX-Evolution Plus System.



### Proven Image Quality.

- Our wireless, cassette-sized DR Detectors deliver superb image quality, easily and cost-effectively.
- Gain increased latitude and high-contrast image detail with optional EVP Plus Software.
- Software options powered by our Eclipse engine accommodate specialties such as pediatrics, orthopaedics and trauma.



### Flexibility.

- A single detector platform works across a broad portfolio of DRX equipment.
- A selection of components lets you build the best system for your facility and budget.



# The Evolution of Evolution.

At Carestream, imaging innovation is not a goal – it's an ongoing process. We've continually added features to keep the DRX-Evolution Plus on the leading edge, including:

- Advanced pediatric capabilities – such as specialized software, a table that adjusts low enough for small children, along with an extended tube-column to reach feet and ankles easily – even in high-ceiling rooms.
- Heavy-Duty Table maximum patient weight: 705 lbs (320 kg).
- Fast, secure, swipe 'n' go log-on.
- Tube touchscreen – allowing users to change techniques and view images from the tube.
- Our unique wallstand Bucky-angulation feature.
- New LED Functional Lighting.
- Bone Suppression Software for optimized viewing of soft tissue.
- SmartGrid image processing supports pristine image quality without the use of a traditional grid.
- Illuminated foot pedals for safe, easy operation.
- Enhanced configurations, including a transbay option.
- Automatic acquisition and stitching for long-length and supine imaging.
- Detector charging in the table or wallstand.
- IHE dose reporting.
- Enhanced administrative analysis reports.
- A design to grow with future applications.
- AI capabilities including Smart Noise Cancellation for improved image quality and Smart DR Workflow for improved operator productivity.

## Evolution Enhancements

### Curved Rail System Enhanced Versatility.

Designed for small rooms and tight spaces, the curved rail system supports a wider range of imaging configurations – delivering up to 25% reduction in layout limitations.



### PowerReady Dock Always Ready. Never Swap.

Carestream's smart, hands-free charging solution keeps detectors protected and fully charged – no manual battery handling required. This means uninterrupted performance and smoother clinical workflows.



### Versatility.

- Choose a one-, two- or three-detector option to perform many types of imaging exams, including tabletop and long-length imaging.
- Advanced components simplify patient positioning for a broad range of projections.
- The automated overhead tube is designed for positioning convenience and efficiency.
- Fixed or wireless detectors deliver workflow flexibility.



### Scalability.

- Take a modular approach to your capital investment.
- Customize a DR solution that fits your workflow and budget.
- Add DR systems as your facility grows.
- The DRX-Evolution Plus is designed for advanced future applications.



### Productivity.

- Images are ready for viewing and manipulation on the console in seconds.
- A wireless detector provides positioning freedom.
- One space-saving console controls all medical-imaging functions.
- Auto-positioning provides fast and accurate setup.



# A Choice of Components: Right for Today. Ready for Tomorrow.

With DRX-Evolution Plus, you can create your own high-performance system – for the capabilities you need right now, plus the confidence your investment will be protected well into the future. No technology obsolescence, no wasted dollars – it’s a system that’s scaled to grow right along with your needs.



## DR Detectors.

Carestream Detectors include a range of models and positioning ease to help even the most difficult exams go smoothly. The selection includes:

- The Lux 35 Detector – glass-free, lightweight and ergonomically designed for less strain on radiographers and more comfort for patients.
- The DRX Plus 3543C, 4343C Detectors with Cesium Iodide (CsI) Scintillator, with increased DQE and MTF.
- The DRX Plus 2530C Detector with a smaller-format design and smaller-pixel pitch for better image quality, optimal for pediatric imaging.
- Our new Lux HD Detectors are built to handle the needs of busy hospitals, imaging centers, and clinics to help deliver consistent, high-resolution images while enhancing workflow efficiency and streamlining the imaging process for technologists.
- The CARESTREAM DRX-LC Detector captures pristine long-length images in a single scan.

## Easy-to-Position Tables.

These versatile tables enhance workflow by simplifying patient positioning for a broad range of projections. Both models feature a four-way floating top. Choose the table best for you:

- Extra-heavy-duty table for patients up to 705 lbs (320 kg).
- Double-tap foot pedals for safe and easy table movement.

### **Our tables offer even more flexibility:**

- An additional set of pedals can be added to the back of the table for optional access.
- The detector automatically charges while in the table to speed workflow.
- The tables flat surface allows for easy patient transfer.
- The table Bucky offers a convenient rotating tray to change the detector orientation.

## Motorized Wallstand.

Ergonomically designed, this wallstand is easy to use, simplifies patient positioning and optimizes workflow.

- Vertical Bucky range of motion from the floor up to 71 in. (180 cm).
- Horizontal projections with tilt capability from negative vertical ( $-20^\circ$ ) to horizontal ( $+90^\circ$ ).
- Optional floor-mounted rail system for lateral stand movement.
- Auto-tracking and centering to align detector with overhead tube.
- Broad range of studies – chest, lateral cervical spine, standing knee and more.
- Horizontal Bucky positioning for upper extremity and under-the-table studies.
- Side-to-side swing angulation for easy cross-table exams on gurneys.

## Motorized Overhead Tube.

The newly redesigned tubehead is smaller, more compact and easier to clean with a flat-front screen. Improved remote control now operates the tubehead, wallstand and collimator. The overhead tube also automatically tracks detector movement for fast source-to-detector alignment, along with auto-centering and auto-perpendicularity capabilities. And there’s more:

- Preprogrammed tube and Bucky positions plus generator and collimator settings for maximum efficiency.
- Auto-positioning and auto-centering for table or wallstand procedures with the motorized tube.
- Auto-positions that tie to any view for a “virtually limitless” options.
- Auto-tracking so that the tube follows the detector to the correct location – or the operator moves the tube and the detector follows.
- Automatic centering of the tube, even to angled Bucky positions.
- Asymmetric-collimation capability so that the top or bottom blade remains fixed while the other moves.
- Motor-assist function for easy manual overhead-tube positioning, reducing operator fatigue.



## Operator Console.

The DRX-Evolution Plus lets you control all imaging functions, including generator operation, digital-image acquisition and processing, all from a single, space-saving console.

- Flexible user interface with touchscreen control, customized to match clinical workflow.
- Automated Procedure Recognition (APR) supported.
- Workflow protocols supported for faster procedures – DxIOD, IHE Scheduled Workflow, IHE Consistent Presentation of Images and IHE Dose Reporting.

## Options.

### Transbay Option

A non-motorized overhead tube with the DRX Detector, paired with 39.3 ft. (12 m) longitudinal rails, allows for rapid imaging in facilities with multiple trauma-bay configurations.

### Smart Features (where available)

These incorporate AI technology to reduce a radiographer's manual tasks and speed up workflow.

### Smart Noise Cancellation

Smart Noise Cancellation provides improved diagnostic quality, preservation of fine detail and better contrast-to-noise ratio for images acquired at clinically nominal exposures. Smart Noise Cancellation enables customers to lower radiation dose without loss in image quality. Performance validated in an internal study with 50% dose reduction from 220 IEC EI on average.\*

## Advanced Applications.

### Auto Long-Length Imaging

Capture a wide range of vertebral and long-bone images with your patient in an upright or supine position. Plus, the system automatically aligns, captures and stitches the images for fast and convenient imaging, enhancing patient care.

### Faster Long-Length Exams with a Single Exposure

The CARESTREAM DRX-LC Detector allows capture of long-length images with a single exposure.

### Dual Energy

Our Dual-Energy Technology switches between high- and low-energy exposures, using a patented differential filtration to capture two images in succession – a soft tissue-only image and bone-only image.

### Smart Room Features

Optional integrated cameras for Smart Room capabilities to enhance workflow, reduce retakes and improve infection control.

\*These statements were validated using Carestream CsI detectors in reader studies conducted by board-certified radiologists. Pairwise comparisons were performed between images at nominal exposure dose without SNC and at 50% reduced dose with SNC. The reduced-dose images included live patient images with simulated dose reduction, as well as images of human cadavers and anthropomorphic phantoms obtained using actual reduced-dose X-ray exposures. SNC performance was further confirmed using a CDRAD phantom. IEC EI values on average at nominal and reduced dose were 220 and 110, respectively.

# The Power of Smart-Room Capabilities.



SMART IMAGING SOLUTIONS

## Smart DR Workflow uses AI to streamline common tasks.

For busy departments with limited resources, our Smart Room\* can help automate tasks for radiographers – enabling faster exams, enhanced patient throughput, greater productivity and improved patient care.

## Meet the Power Behind Our Smart DR Workflow.

Eclipse is the engine behind our innovative imaging software. It uses AI technology and proprietary algorithms to significantly increase the value of the entire imaging chain, from capture to diagnosis.

Our Advanced Smart Features automate tasks and workflow steps to streamline processes, support radiographer productivity, save time and enhance patient care.



## Eclipse: Harness the Power of Decades of Innovation.

Carestream's Eclipse is the engine behind our innovative imaging software. It uses AI technology and proprietary algorithms to significantly increase the value of the entire imaging chain, from capture to diagnosis.



[Download the Ci brochure](#) to see how Ci can change your workflow.

# Imaging Just Got a Whole Lot Smarter.



We are poised on the edge of a new era in Radiology. The application of Artificial Intelligence has already begun to add great value across the entire imaging chain.

Our Smart X-ray Rooms offer improved features, for faster, more efficient exams and enhanced workflow. Automated patient positioning and exposure settings, along with an operator console with a live camera view, helps provide image consistency for improved diagnostic confidence and helps reduce retake rates.



## Live Camera View.

Radiographers can monitor their patients from the operator console. The camera is equipped with wide-angle optics to enhance the field of view of the collimated area.

\* Smart Room Features are available on certain DR Systems. Contact your local Carestream Representative for more information.

[carestream.com/evolution-plus](http://carestream.com/evolution-plus)



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