



# THE NEW SIMPLICITY OF ULTRASOUND.

A Revolutionary Combination of Touch and Sound.



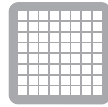
# MEET OUR REVOLUTIONARY, ULTRA-PREMIUM ULTRASOUND SYSTEM.

From a world leader in diagnostic imaging comes a new benchmark in ultrasound simplicity and performance: the CARESTREAM Touch Prime XE Ultrasound System.

Built on the same platform as our Touch Prime System, the Prime XE features the same configurable, *All-Touch* control panel to offer a new degree of intuitive operation. But the Prime XE is further enhanced with an even higher level of computing capabilities and additional premium features. The result is unprecedented ease of use and image quality.

## THE NEW BENCHMARK IN ULTRASOUND PERFORMANCE.

Touch Prime XE is truly different by design. We designed it with dynamic, next-generation technologies, based on extensive voice-of-the-customer input from ultrasound professionals around the globe. Unhindered by legacy products, we had the freedom to innovate a smarter, all-new ultrasound solution. It delivers:



### Pristine Image Quality.

Image quality without compromise was a top priority for Touch Prime XE. So we designed the system with the advanced computing capabilities used in the gaming industry – to offer powerful graphic processing for image and data optimization. The result is better spatial and contrast resolution, a higher frame rate and improved beam uniformity throughout. This means you get more information – and you get it faster.



### Advanced Ergonomic Design.

With Touch Prime XE, the unprecedented ergonomics begin with a sleek, modern control panel. The primary controls have the tactile feedback of traditional keys, complemented by the flexibility of configurable soft controls. But that's just for starters: the system is also extremely compact, easily maneuverable, and fully adjustable to accommodate all scanning positions – greatly reducing stress and fatigue.



### Extraordinary Workflow.

Touch Prime XE offers many ways to boost speed and productivity. With a single swipe of your badge, the system securely logs you in and automatically configures to your individual preferences. And our Smart Connect transducer technology enables one-touch activation – eliminating keystrokes to accelerate the imaging process.

## PREMIUM FEATURES.

In addition to increased processing power, enhanced imaging performance and higher frame rate, the Prime XE System includes these advanced features:

- DICOM Package: SCU Storage Commitment, SCU Query/Retrieve, SCU Modality Worklist, and SCU Print.
- Gentle Touch Elastography Imaging: Uses manual tissue compression or motion from the patient (e.g. cardiac movement or respiration).
- Wireless connectivity: provides on-the-go image transfer to PACs and communication with the RIS.
- 1D Barcode Reader: easily scan requisition sheets for patient identification.
- Badge Reader: *Swipe-and-Go* badge log-on saves time and promotes secure access. Also configures the system to the user preferences.
- Gel Warmer: Integrated gel warmer on the system for fast access and convenience.
- Protocol Imaging: an automatic predefined checklist that proves the images and measurements that should be acquired during a specific exam.

# EXPERIENCE THE COMBINATION OF TOUCH AND SOUND.



- User Experience Features
- Image Quality Features

**Large, 19" LED monitor** features high resolution and high-quality color. ■

**Dedicated endovaginal (EV) probe holder** prevents accidental damage. ■

**Built-in gel holder/warmer** helps ensure operator convenience and patient comfort. ■

**Control panel slides horizontally and swivels** for positioning flexibility and sonographer comfort. Features easy up/down height adjustment. ■

**Articulating monitor arm** allows easy movement – including up and down, left and right, and tilt for optimal viewing. ■

**Easy grip** for one-hand positioning. ■

**All-Touch primary controls** use a distinctive etched pattern to provide the tactile feedback of traditional keys. ■

**All-Touch secondary controls** can be configured to specific user preferences. ■

**Swipe-and-Go log-on** saves time, promotes secure access and configures the system to user preferences. ■

**Powerful GPUs** process ultrasound data for better spatial and contrast resolution, higher frame rate and improved beam uniformity. ■

**1D Barcode Reader** scans requisition sheets for quick, easy patient ID. ■

**Transducers** connect easily to any of four ports and interface directly with the processing board for lower noise and higher image quality. ■

**The single-board design and field-replaceable modules** deliver maximum uptime. ■

**Handy storage bins** hold procedure essentials. ■

**Convenient foot pedal** for quick access to wheel lock, unlock and steer modes. ■

**Dedicated footrest area** improves comfort while scanning. ■

# AT THE END OF THE DAY, IT'S THE IMAGE THAT MATTERS.

Ease of use, enhanced workflow, system reliability. These are all tremendous benefits – but only if they work together to help you capture images of the finest quality. Because that, more than anything, is what supports excellence in patient care. The Touch Prime XE Ultrasound System won't disappoint: it delivers the image quality professionals like you demand.

# SUPERB IMAGE QUALITY.

The Touch Prime XE Ultrasound System processes its data with the massive computing power and advanced algorithms commonly used in the gaming industry – so you see more information, faster.

The system's advanced ultrasound beam-forming, combined with unique algorithms that process the acoustic data, further amplify the quality of images. Touch Prime XE is based on a new hardware architecture built from the ground up, possessing unique ultrasound image-processing. It leverages integrated Graphical Processing Units (GPUs) and proprietary parallel beam-forming hardware.

The inherent data parallelism and high throughput of this combination are the basis for Carestream's proprietary **SynTek** beam-forming architecture. The XE Edition provides enhanced imaging performance and frame rates in excess of 100 Hz while maintaining improved image detail. The clinical benefits of SynTek architecture include:

- Uniform lateral resolution over the entire depth, making position of transmit focus less critical.
- High frame rate with maintained spatial resolution.
- Improved penetration for procedures such as deep abdominal imaging.





# SONOGRAPHER COMFORT AND CONVENIENCE.

If a workstation requires sonographers to assume stressful postures or make awkward movements while performing exams, musculoskeletal injuries are a likely result. These can greatly compromise the sonographer's overall health, comfort and productivity. Touch Prime's ergonomic features – an adjustable height range, convenient placement of keys and controls, easy, flexible positioning of the display and more – work together to help ensure sonographer comfort and well-being.

# ADVANCED ERGONOMIC DESIGN.



Carestream has integrated user input into the features of the Touch Prime XE System, creating an extraordinarily ergonomic and efficient work station.

The system's intuitive control panel's primary controls have the tactile feedback of traditional keys, complemented by the flexibility of configurable soft controls.

- The most frequently used keys are positioned directly in front of the sonographer, and grouped according to function – reducing reach and the need to search for related keys. Other keys can be positioned according to the sonographer's preference and personal comfort.
- Typing keys are integrated into the control panel so the sonographer does not need to back away from the system in order to type.
- A fully articulated monitor arm with a one-grip handle allows positioning of the display directly in front of the user's eyes.
- Control-panel movements in all directions allow the sonographer to move it closer to the exam table and position it for comfort – without moving the entire system.
- Transducer ports are easily accessed with one hand and minimal reach.
- A wide, adjustable height range accommodates a variety of sonographers, ensuring comfort regardless of their height or preference to stand or sit while performing exams.



Dedicated endocavity probe holder prevents accidental damage.



Built-in gel holder/warmer helps ensure operator convenience and patient comfort.



All-Touch secondary controls can be configured to specific user preferences.



All-Touch primary controls use a distinctive etched pattern to provide the tactile feedback of traditional keys.



Conveniently located levers release the control panel for easy movement to the most comfortable positions.



Swipe-and-Go log-on saves time, promotes secure access and configures the system to user preferences.



1D Barcode Reader scans requisition sheets for quick, easy patient ID.



The control panel features bays that hold transducers securely and within easy reach, plus a well that holds and warms your ultrasound gel.

# PRIME XE PRODUCTIVITY.

The Touch Prime XE System sets a new standard for ultrasound efficiency. From easy, intuitive operation to minimized training time and a smooth, productive exam process, Touch Prime XE has what it takes to accelerate your workflow.

# EXTRAORDINARY WORKFLOW.

Striving for higher productivity? Touch Prime XE was built from the ground up with the features\* to make that a reality:

- Fast cold-boot – allowing faster access to imaging and eliminating the need for battery stand-by mode.
- *Swipe-and-Go* badge log-on saves time, promotes secure access and automatically configures the system to user scanning preferences.
- A unique *Smart Select* transducer button allows quick, one-touch activation to eliminate keystrokes and save time, and one-touch freezing, storing and printing of images.
- Proprietary *Smart Flow Imaging* visualizes blood flow in all directions, independent of imaging angle. This saves valuable time in the detection and visualization of complex flows.
- *Smart Flow Assist* technology automatically and continually updates beam steering, gate position and angle correction, even when the transducer is moving – eliminating the need for repeated manual adjustments.
- *Smart System Control* (SSC) automatically adjusts over 25 different imaging parameters in real time to provide optimal image quality – for improved workflow and diagnostic confidence.

\*Some Touch Prime XE features presented here are purchasable options.



# SMART TRANSDUCERS.



The Touch Prime XE System offers an extensive family of transducers available for radiology, OB/GYN, musculoskeletal (MSK) and vascular applications.

Advanced Smart Connect transducer technology provides increased sensitivity and efficiency with improved scanning access across a wide range of body types. In addition, the pinless connectors are designed to be connected and disconnected with one hand and to reduce noise in the ultrasound image. Up to four transducers may be connected to the system simultaneously.



A unique *Smart Select* transducer button allows quick activation and one-touch freezing, storing and printing of images.



NO MATTER WHICH ROAD YOU'RE ON,  
WE'LL GET YOU WHERE  
YOU NEED TO GO.



RIGHT FOR TODAY.  
READY FOR TOMORROW.

**Right for Today. Ready for Tomorrow.**

Carestream is ready to help you plan the most effective route to your imaging future. Our scalable equipment design and modular components mean high performance today, along with easy, affordable upgrades for years to come.

Let's plan out your equipment migration together – you'll gain the confidence that your current technology investment will continue to pay dividends well into your future.

**A Community of Service and Support.**

For dependable service, look to our Customer Success Network. We work continuously to improve your imaging performance, help you to innovate as needs change, and make the most of your budget and resources. Carestream's Customer Success Network surrounds you with a dynamic team of experts, with a Single Point of Entry for easy, customized access to the right people in every situation. You and your patients will benefit from the expertise and best practices only Carestream can deliver – based on thousands of customer engagements worldwide and our 100-year heritage in medical-imaging innovation.



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