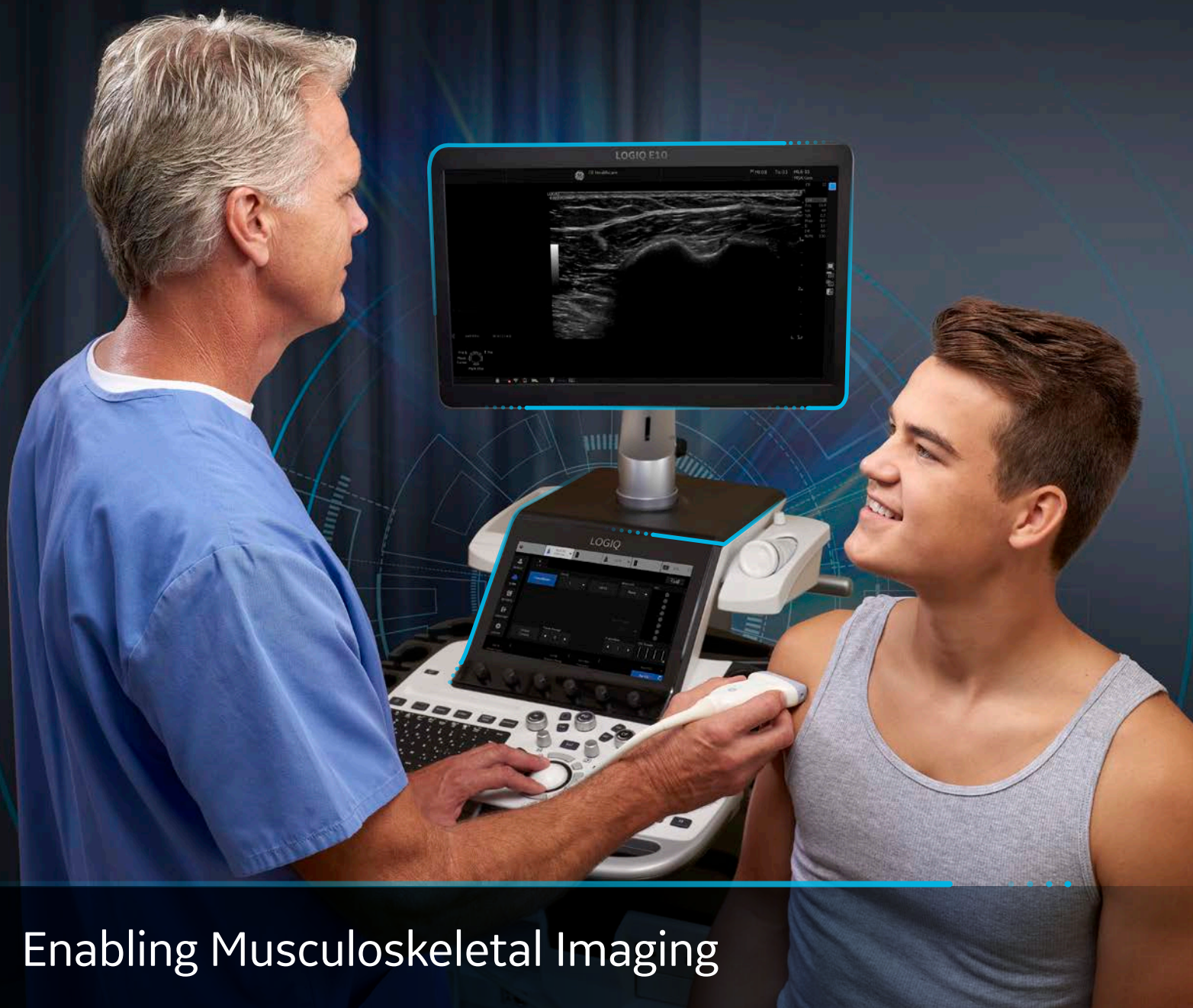# LOGIQ E10

Empowering You to Make the Difference

Enabling Musculoskeletal Imaging

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DIAGNOSE AND TREAT A WIDE RANGE OF CONDITIONS WITH CONFIDENCE

Clinical challenge

The use of musculoskeletal ultrasound continues to grow. Clinicians need a system with excellent image quality and expert tools to manage the high volume and wide range of patients efficiently.

GE solution

The LOGIQ™ E10 system supports your clinical expertise so you can take your practice to the next level. It provides extraordinary images across the range of musculoskeletal conditions. Central to the new system is the cSound™ Architecture that combines versatile XDclear™ probes and the new cSound Imageformer to deliver exceptional image quality. You can image both fine-detail and challenging cases, while workflow tools help increase exam efficiency. Use advanced tools like 2D shear wave elastography to acquire more information.

cSound

Comprehensive tools

The LOGIQ E10 provides robust tools to facilitate accurate diagnostic and treatment decisions.

B-Steer+: Enhances needle visualization in real time to improve speed and confidence in needle guidance procedures.

B-Flow™ imaging: This non-Doppler technique enables direct, real-time visualization of blood flow echoes with no vessel wall overlap to obscure details.

- **B-Flow Capture with Reconstruction:** Provides a three-dimensional view of blood vessels in which artifacts are automatically suppressed and weak vessel signals enhanced

Volume Navigation: The combination of fusion imaging, GPS, and needle tracking help make a real difference in accuracy.

- **Fusion Imaging:** Merge real-time ultrasound with a volume DICOM® dataset (MR or other imaging modality) to help increase precision in image-guided interventional procedures

- **Needle Tip Tracking:** A live display of position and orientation helps users navigate interventional procedures in plane or out of plane. A Virtual Tracking tool is also available to see a projected view of the needle during procedures

Compare Assistant: Enables clinicians to easily view a prior study – ultrasound, CT or MR – and current images together in real time via a split screen on the monitor, helping to improve confidence and exam efficiency.

Multi-Modality Query Retrieve: Enables import of any DICOM data set of previous study for comparison and follow-up.

Photo Assistant App: A picture is worth a thousand words in reporting. Acquire and send photos of relevant anatomy – right from the Android™ tablet or phone – to provide valuable context for documentation and comparison after a study. Photo Assistant with Compare Assistant allows you to track and document changes between the photo and the sonogram.
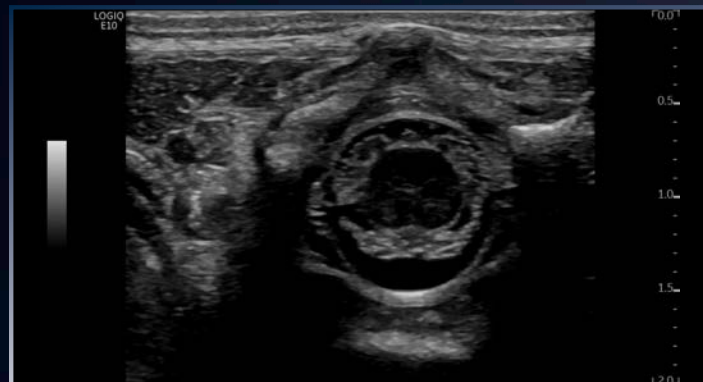
Confident diagnosis

The extraordinary image quality of the LOGIQ E10 empowers clinicians to scan, diagnose, and treat a broad range of conditions. The system's new platform delivers incredible uniformity from near to far field and enables deep penetration in larger structures, like the shoulder, as well as finely-detailed visualization in smaller parts, like fingers and wrists.
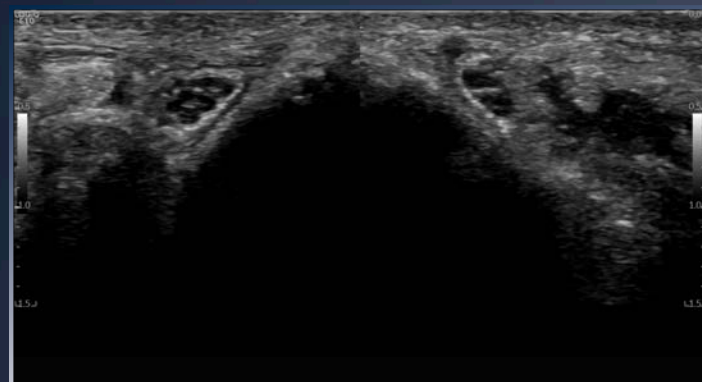
Auto-optimized images: The cSound Imageformer automatically and continuously delivers images of high quality across a wide range of clinical scenarios. Extraordinary images are quickly obtained resulting in efficient studies, particularly important in challenging cases.

Choice of high-performance probes: E-Series and XDclear probes deliver powerful, high fidelity and wide bandwidth for impressive deep penetration and high resolution. Embedded Volume Navigation sensors in select probes simplify workflow and enhance productivity.

- **ML6-15-D:** Broad-spectrum linear matrix array probe for high-resolution of fine-detail structures
- **L2-9-D/L2-9VN-D:** New XDclear probe with excellent penetration for challenging cases
- **L8-18i-D:** Due to its size, this high resolution "hockey stick" linear probe is well-suited for imaging of small joints, such as fingers, wrists, and ankles, as well as dynamic examinations
- **C2-9-D/C2-9VN-D:** This XDclear convex probe achieves deep penetration for visualizing hip joints
- **Verza™ Needle Guide:** Available on L2-9-D/L2-9VN-D, includes five angles for needle visualization

Pediatric Spine, L8-18i-D

Abnormal Right Radial Nerve at Elbow, L8-18i-D

> Concise workflow

The LOGIQ E10 can help you achieve new levels of workflow efficiency, so you have more time to focus on patients.

Virtual Convex: Provides a wide field of view so users can visualize more anatomy in a single scan.

Raw Data: Expanded dual-screen capabilities enable users to apply a wide variety of image processing and quantification after the exam. This allows the operator to extract and reanalyze information without extending exam time.

Flow Quantification: 2D CFM/PDI quantitative assessment of vascular feeding in a selected ROI. Can help in the assessment of inflammatory disease and vascular feeding of suspicious anatomical areas.

Scan Assistant: Provides customizable automation to assist users at each step of an ultrasound exam, helping to reduce keystrokes and exam times.

Exceptional mobility: The LOGIQ E10 system easily fits into crowded suites. The Power Assistant battery means that no re-boot is required when the system is moved from location to location. On-board storage ensures supplies are at hand.

Intuitive operation: The ergonomic user interface features easy-to-reach controls, an adjustable floating keyboard, and an articulating monitor to speed procedures.

LOGIQ View: Constructs an extended image from individual frames, enabling a "virtual sweep" that can help improve visualization of the entire tendon or muscle.

Remote Control App: Ability to operate the LOGIQ E10 from an Android tablet or phone that has the LOGIQ Smart App loaded onto it.

Imagination at work