Intelligent Design to Elevate Outcomes

The critical care environment presents many challenges for clinicians when delivering patient care. To combat these challenges, innovation must take center stage to help elevate patient outcomes. The TE7 Ultrasound System Crystal Series 2.0, equipped with artificial intelligence (AI) powered smart tools, a sealed user interface, and advanced cardiac capabilities like transesophageal echocardiography (TEE) provides critical care clinicians with the tools they need to assess patients quickly and reliably at the bedside.

Smart Tools Powered by AI

**Smart VTI**
Automated measurement of the Velocity Time Integral (VTI) and Cardiac Output (CO), enables rapid assessment of cardiac function. This software automatically locates color box and Pulse Wave Doppler (PW) sample line in real time. A graph of parameter trends for CO, Stroke Volume (SV) and VTI is produced to guide decision-making.

**Smart IVC**
Automated measurement of Inferior Vena Cava (IVC), helps assess volume status and guides the fluid management. A trending graph documents the change in collapsibility (CI) and distensibility (DI) to document fluid response over time and guide therapy.

**Smart B-Line**
Automated counting of the number of B-Lines and percentage of area of B-Lines according to user-selected protocols, makes for rapid assessment of lung tissue.
Single Crystal Transducer with 3T™ Technology enables better penetration, higher resolution, and increased image uniformity. Enhanced with the addition of single crystal technology, this transducer offers improved penetration with significant noise reduction, especially for technically difficult exams.

Single Crystal Transducer

Auto EF
Automated ejection fraction
Proprietary technology used to analyze 2D echo data to automatically recognize diastole/systole frames and calculate EDV/ESV/EF.

TEE Imaging
Transesophageal Echocardiography
With the increased demand for advanced imaging capabilities in the point-of-care setting, the TE7 System delivers a complete mobile solution for TEE at the bedside.