# GE Healthcare

# Vivid<sup>™</sup> E9 ∯ XDclear<sup>™</sup> Make every day extraordinary

Worthwhile upgrades are those that help you make a big difference for your patients. The new Vivid E9 with XDclear ultrasound system has been enhanced with innovative capabilities, extensive power, and a flexible system architecture that can help transform everyday ultrasound imaging.

### **Extraordinary images**

Help improve image quality in both routine and specialized exams with new transducers. The combination of Single Crystal, Acoustic Amplifier and Cool Stack technologies is the core technology of the new XDclear transducers.

**Transducers** - Vivid E9 with XDclear users now have an even wider selection of transducers.

#### New to Vivid E9 with XDclear:

- **M5Sc-D** Phased array transducer with XDclear technology helps achieve impressive depth on patients with difficult body habitus. Used for adult cardiac, pediatric abdominal, fetal heart and other shared-service applications.
- **C2-9-D** Convex transducer with XDclear technology provides ultra-wide bandwidth and superb image quality for fetal heart, obstetric and abdominal exams.
- **C1-5-D** Convex transducer that delivers excellent 2D and color-flow image quality. It supports fetal heart imaging, as well as abdominal, renal, urology, and OB/GYN applications. It covers a range of fetus sizes, primarily for the late trimesters.



- 8C Micro Convex transducer is well-suited for vascular imaging. It supports carotid and vertebrae imaging where access with conventional wider aperture linear transducers may be limited by body type and/or anatomy. Also provides imaging applications dedicated to neonatal head imaging as well as abdominal imaging. The tight curvature of the lens of this transducer is well-suited for both these applications.
- **iC5-9-D** Convex endocavity transducer is for OB/GYN applications, as well as fetal heart and urology.

Major updates to existing transducers:

- **6S-D** Phased array dedicated pediatric transducer aimed to cover a patient weight range from 3 kg up to 16-18 kg. Enhanced ability to differentiate small- and fast-moving structures and flows. Fundamental, Octave and HD imaging are enhanced compared to the previous version of the 6S-D transducer.
- **12S-D** Phased array dedicated pediatric transducer aimed to cover a patient range from neonates up to children of 5 kg. Enhanced ability to differentiate smalland fast-moving structures and flows.
- Both the 6S-D and 12S-D transducers support Continuous Tissue Optimization (CTO) that can help enhance workflow by providing a dynamic update of the imaging parameters, keeping the image uniformly gain balanced.
- **9L-D** Linear array for vascular imaging now with a new preset for enhanced 2D and color compared to the previous version of the 9L-D transducer.



## Extraordinary workflow

**Depth Illumination** - Using an intelligent "shadowing" technique and a user-adjustable "light source," depth perception of structures are even further enhanced. This enhances the eyes' depth perception of 3D/4D images and loops.

**Polar Vision** - The XDclear release introduces the next GE generation of stereo vision. This option utilizes polarized GE 3D glasses and a dedicated medical-grade 3D monitor from Sony.™ The Vivid E9 provides a DVI output for the 3D monitor with alternating interlaced (odd/even) lines corresponding to the left/right eye 3D glasses orientation.

## **Extraordinary quantification**

**AFI** – New automated method of defining the region of interest (ROI) when speckle tracking the ventricle walls.

**2D Strain (EchoPAC<sup>™</sup> only)** – The ability to do multilayered strain analysis (for endocardium, mid-wall and epicardium) within the optional 2D Strain package running on EchoPAC. The XDclear release supports the ability to change the width of the ROI according to the segmental variation in width.

**4D Strain** – A new export utility is provided to allow the users access to the mesh (or grid) data.

Mitral Valve (MV) Assessment – Vivid E9 with XDclear now supports onboard a new version of the MV Assessment (TomTec™ plug-in) package (previously only available on the EchoPAC). The tool generates a geometrical model of the mitral valve apparatus from a GE Vivid 4D data set. This provides a multitude of parameters, including dynamic parameters obtained throughout systole. This tool quantifies important valve dimensions.



**Polar Vision** 



Multilayered strain (EchoPAC only)



MV Assessment

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# imagination at work

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