



iE33 Echocardiography System



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Keeping pace with the beat of life

Keeping pace with the clinical needs of managing patients with cardiac disease, such as heart failure, valvular disease, and congenital heart disease, calls for unprecedented levels of image quality, quantification, clinical performance, and information management. The **iE33 intelligent echo system** is addressing this growing requirement with complementary 2D and volumetric Live 3D imaging and quantification. These tools help you find detailed information related to cardiac disease management: structure, efficiency, size, flow and function.

The world's first Live 3D TEE

With [Live 3D Transesophageal Echo](#) (TEE), clinical cardiologists, cardiac surgeons, anesthesiologists, interventional cardiologists, and echocardiographers can see cardiac structure and function never seen before. It's real-time displays of the beating heart from new perspectives. It's quick, accurate, reproducible and quantifiable.

+ [Learn more about Live 3D TEE](#)

Seeing is believing

If you can't see it, you can't diagnose it. That's why image quality continues to be the most important aspect of any echo system. Clear images with well-defined borders and highly sensitive color support your ability to assess patients quickly and accurately. Perhaps most importantly, superb image quality is the foundation for accurate measurement and quantification.

Revolutionary imaging begins with innovation

The iE33 system is the result of innovation and expertise. The xSTREAM architecture, coupled with cutting-edge transducer technologies, is capable of real-time generation of volume data for instantaneous display of Live 3D Echo, Live xPlane images, and now Live 3D TEE images. You can rely on its accurate, precise data for your diagnoses. We've coupled two proven technologies—[PureWave](#) and [xMATRIX](#)—at increasing levels of miniaturization to bring image clarity and precision to more applications. The [X7-2 transducer](#) was designed specifically for pediatric Live 3D imaging. The transducer's compact footprint and Live 3D capabilities facilitate exams and allow excellent results from the small and quick acquisition windows.

Now we've combined the 3D power of xMATRIX technology and the exceptional image clarity of PureWave crystal technology into TEE format. You can appreciate new views of cardiac structure, pathology and function—possible now for the first time.



Expanding the clinical utility of echo with Live 3D

[Live 3D Echo](#) is taking echo to places it's never been before—into surgical planning, the EP lab, and beyond. And Live 3D TEE is giving cardiac surgeons and anesthesiologists new views and new planning tools. But not all 3D echo systems are created equal. Just ask any of the thousands of clinicians using Philips Live 3D Echo capabilities in their labs today. A fully-sampled xMATRIX transducer provides all the voxel information in the 3D volume for more confident detection of abnormalities and the ability to perform true volume quantification.

Two Imaging planes in a heartbeat

Ever wish you could have twice as much information in the same amount of time? Live xPlane does just that—by acquiring two planes simultaneously from the same heartbeat. The system's multidirectional beam steering lets you select unlimited planes in all directions so you get the precise view you want, with no degradation in image quality.

Practical, accurate quantification

Quantitative assessment of cardiac anatomy and function from 2D and Live 3D Echo images has never been more practical than with [QLAB quantification software](#). QLAB's complementary 2D and 3D tools aid in disease management by providing fast, reproducible and objective data. QLAB is integrated into the iE33 system and is also available off-cart for use on a PC or integrated into our Xcelera information management system, so you can select the workflow that best suits your lab.