

the next level in
cardiovascular ultrasound imaging

3D/4D Imaging

Add comprehensive clinical information with our high-power 3D/4D package and high-resolution 3DTEE and 3DTTE probes. Realistic ultrasound images help you look closely at cardiac anatomy and detect even small anomalies. Then you can analyse the data later on and conduct more detailed measurements for structural heart disease and valvular pathology cases.

Understand structural anomalies with 3D and bi plane views

Not only can you improve the visualisation of valve structures or the thrombus with our high resolution, realistic 3D/4D images. You can then use our 3DTEE and 3DTTE transducers to create high quality 2D images for clearly assessing the anatomy in the bi plane view. Access the 3D volume reconstruction offline after the examination to analyse the details for a confident diagnosis and process planning of your treatment.



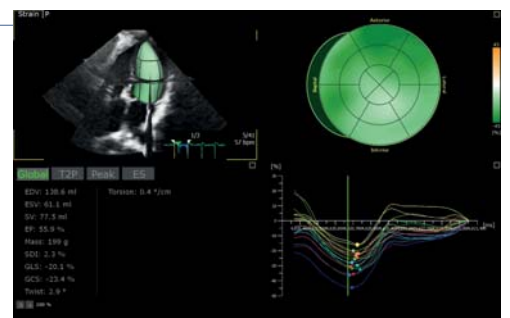
Quantify mitral valve anatomy to guide treatment decisions

For complex mitral valve pathologies like a prolapse, you need a detailed assessment to decide and prepare the right therapy. With 4D MV Assessment*, you can analyse and quantify its anatomy and movement. Set reference points on the 3DTEE image and automatically obtain important geometric measurements like annular dimensions, leaflet morphology or coaptation descriptions. Then use this data to help plan your patient's therapy and monitor the treatment response.

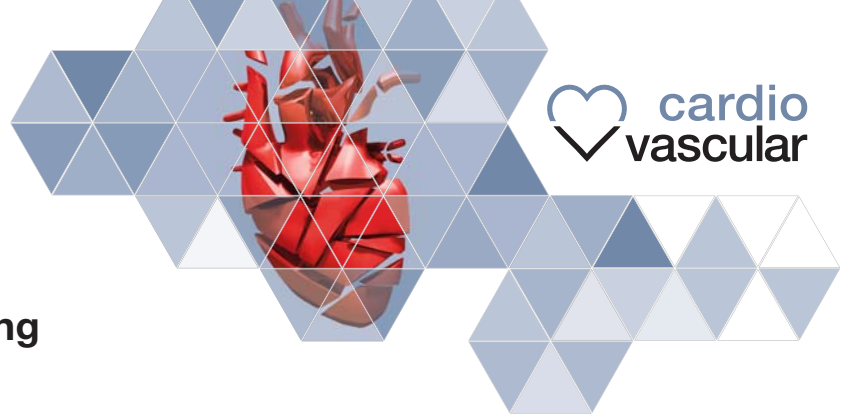


Visualise and quantify the full LV function in 3DTTE

Use 4D LV-ANALYSIS* to assess the left ventricular function based on 3D speckle tracking. This innovative research approach displays the regional and global strain analysis via a 3D model of the LV that visualises the wall motions comprehensively; while a colour-coded bullseye highlights healthy and problematic areas in different segments. In all, it gives you a better understanding of wall motion anomaly and cardiac function.



*Module from TomTec-Arena™, a registered trademark of TomTec Imaging Systems GmbH in Germany and the United States of America.



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Avoid MRI for RV function assessment with 3DTTE

The right ventricle can be difficult to assess in 2D ultrasound because of its position which is why most patients get referred for MRI. However, recent studies have shown that 3D echocardiography delivers similar results to MRI and it's quicker and easier. 4D RV FUNCTION* analyses and quantifies RV function for cases like pulmonary hypertension or right sided heart failure; and it enables you to combine 3D and 2D values including EDV, EDVi, ESV, ESVi, EF and SV, RVLS, TAPSE and FAC all from the same volume data set.

