

PHILIPS

AI and automation for what matters most

Elevate Plus for EPIQ Elite and Affiniti

Elevate diagnostic confidence and workflow efficiency

Fewer trained sonographers. A shortage of radiologists. The imperative for efficient workflow without sacrificing diagnostic confidence. The challenge is to not only keep up with the increasing number of patients, but to also be able to focus on those with complex conditions.

The need for AI and automation solutions is clear, but they have to bring the accuracy and workflow advantages to help you reduce time spent on routine anatomy measurements, as well as support you in reducing the number of biopsies on benign lesions and nodules. See how Philips AI and automation are bringing new levels of reproducibility to exams so that you have fast, consistent, precise results from user to user.



Advanced AI and automation solutions



Help increase patient throughput

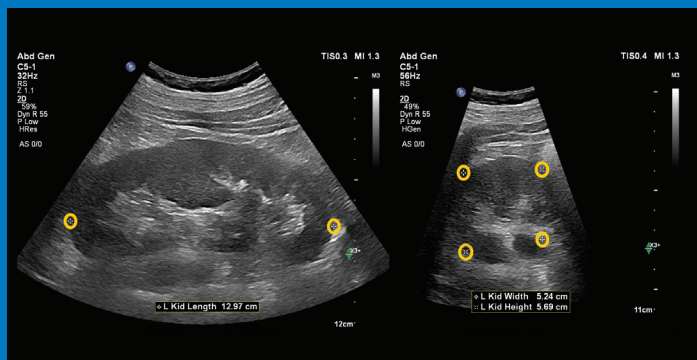


Streamline workflows

Fast workflow with AI and automation

AI-powered Auto Measure Abdomen¹

Fast, more consistent measurements enhance both clinical confidence and workflow efficiency. Select a supported measurement, and Auto Measure Abdomen instantly recognizes the anatomy and uses the measurement to place calipers for the user to accept or adjust.



Sagittal and transverse planes of the kidney with auto measurement using the C5-1*



Accurate

>93% accuracy

compared to manual measurements by clinical experts²



Fast

55% reduction

in measurement time³



Up to 33% reduction
in button pushes³

Efficient

*Yellow circles are for highlighting purposes and will not appear on screen/display

Better workflow in every scan: Improved liver elastography with Auto ElastQ⁴

Auto ElastQ streamlines liver stiffness assessment by automatically selecting optimal frames and placing ROIs for measurement aligned with international guidelines, enhancing reproducibility and incorporating many of the best practices for liver elastography measurements.



Reliable

99% reliability
of automated acquired liver shear wave measurements⁴



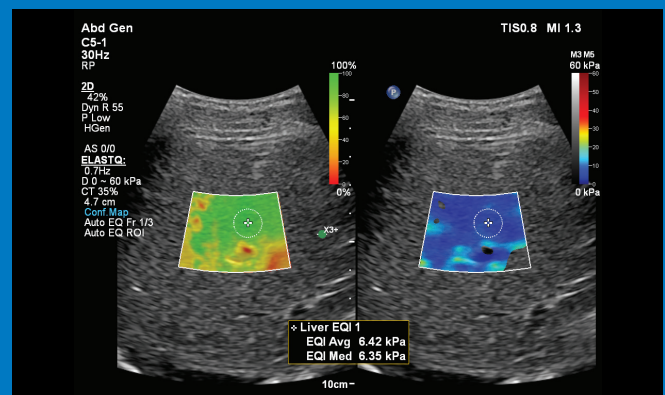
Fast

Up to 60% reduced
exam time⁴



Efficient

Up to 29% fewer steps
to acquire liver shear wave measurements⁴



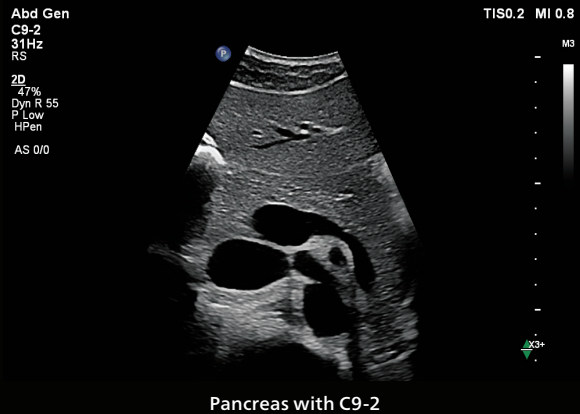
Auto ElastQ applied to elastography of the liver with C5-1

Everyday efficiency

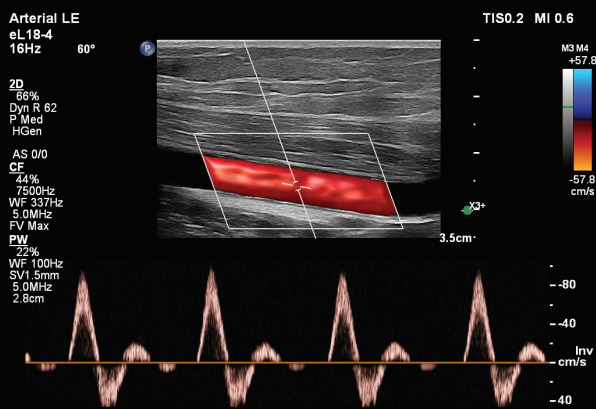
Next Gen Auto Scan

for use across clinical settings

- **Efficient – Up to 54%** reduced button pushes⁵
- **Optimizes in real time** Improves image uniformity, adaptively adjusting image brightness at every pixel



Pancreas with C9-2



Auto Doppler applied to the common femoral artery with eL18-4

Auto Doppler

Adjusts optimal flow sensitivity and resolution

- **Fast – Just 3 steps** (down from 10)⁶
- **Efficient – 68% average** fewer repetitive button pushes⁶

Like a second opinion in just seconds: Koios AI-based clinical decision support

Now available both on- and off-cart, just three simple steps combine the exceptional ultrasound imaging of Philips with the AI software of Koios to reliably classify^{7,8} and quickly offer assessment for breast lesions and thyroid nodules.

Simple

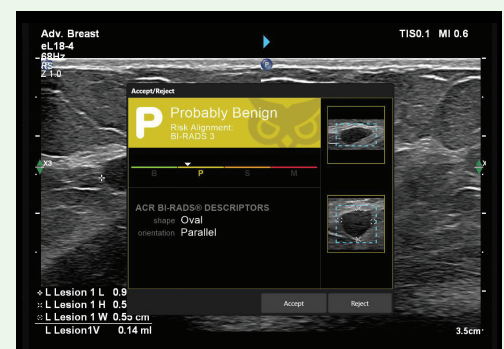
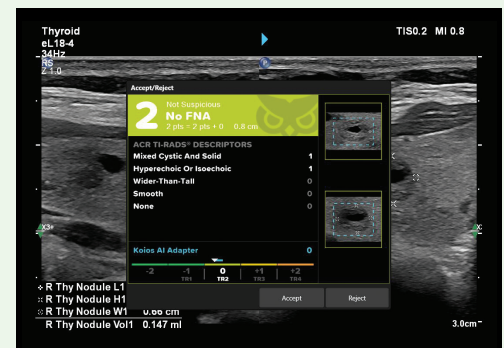
Analyze breast and thyroid images on-cart or off-cart with Koios, an AI-driven decision-support tool for breast lesion (BI-RADS) and thyroid nodule (TI-RADS) classification⁹

Unique to Philips

Small calipers or fast off-cart workflow help reduce time to results

Fast

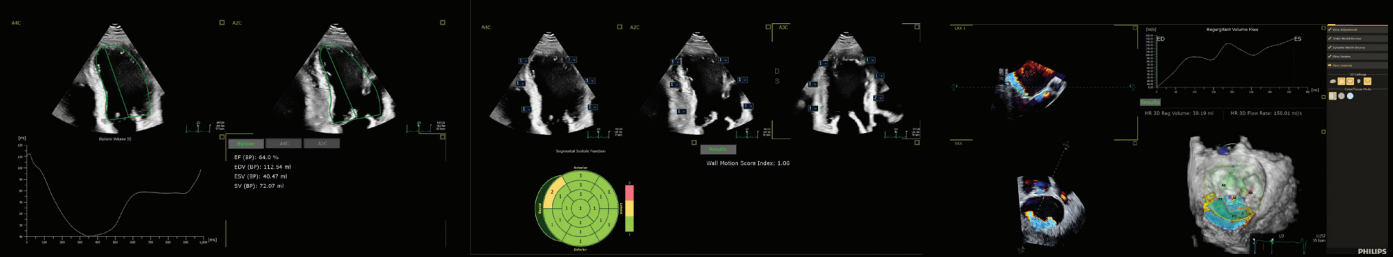
<2 seconds for interpretation and assessment of the risk of breast lesion malignancy using Koios BI-RADS; Koios TI-RADS uses > 350,000 pathology-proven cases to support confident thyroid nodule classifications¹⁰



AI-enabled consistency

AI and automation offer consistent image acquisition and interpretation across scans for standardized results to reduce variability user-to-user and improve reproducibility scan-to-scan.¹¹⁻¹⁴

Extend your practice with advanced cardiovascular diagnosis



Auto Strain LV with 2D automated EF and mid-layer strain

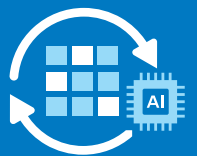
Fast, reproducible results as part of a comprehensive LV assessment within the same application, designed to improve workflow and save time

Auto Segmental Wall Motion Scoring

Provides automated evaluation of wall motion in a standard 17-segment bullseye display to aid objective LV wall assessment

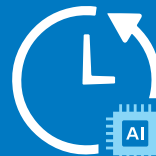
Automated 3D Color Flow Analysis

Enhancing consistency and efficiency in complex MR quantification workflows



Smart View Select

Uses AI to automatically select the optimum images for 2D LV assessment



Smart (Doppler) View ID

Automated workflow optimization, reduces manual steps during Doppler exams

Put Philips AI and automation to work for you

By minimizing variability and accelerating workflows, these innovations empower you to quickly make more confident decisions, while offering greater precision and efficiency across your ultrasound practice.*

*Above evidence was obtained on a subset of data from 5 subjects (7 clinical experts). It is important to note that this study assesses only the measurement time on saved images and does not include amount of time taken for scanning.

References

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3. Internal documentation: Validation report D001785669. Evidence was obtained on a subset of data from 5 subjects (7 clinical experts) assessing the measurement time for saved images and not the scan time.
4. Internal documentation: Validation report D001526983, Claims list, Release 12.0, Rev D.
5. When comparing Release 10 performance to Release 7 performance.
6. Philips Auto Doppler Clinical Study, Dec. 2011.
7. BI-RADS and TI-RADS are registered trademarks of the American College of Radiology.
8. Amir T, Coffey K, Sevilmedu V, et al. A role for breast ultrasound artificial intelligence decision support in the evaluation of small invasive lobular carcinomas. *Clinical Imaging*. 2023;101:77-85. DOI:https://doi.org/10.1016/j.clinimag.2023.05.005.
9. Barinov L, Jairaj A, Middleton WD, et al. Improving the efficacy of ACR TI-RADS through deep learning-based descriptor augmentation. *J Digit Imaging*. 2023;36:2392-2401. DOI:https://doi.org/10.1007/s10278-023-008810.
10. Internal documentation: Validation report D001785669.
11. The Auto Measure feature can reduce the quantification time by 51%. release 9.0 claims document 270472 A.
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13. Conclusion: RT3DE yields accurate and reproducible RV volumes. The calculated percentile curves may facilitate the clinical use of RT3DE to analyze RV function in children. This study done with Philips 3D AutoRV. Laser, K. T., et al. (2018). "Validation and Reference Values for Three-Dimensional Echocardiographic Right Ventricular Volumetry in Children: A Multicenter Study." *J Am Soc Echocardiogr* 31(9): 1050-1063.
14. Henry MP, et al., Three-Dimensional Transthoracic Static and Dynamic Normative Values of the Mitral Valve Apparatus: Results from the Multicenter World Alliance Societies of Echocardiography Study. *J Am Soc Echocardiogr*. 2022 Jul;35(7):738-751.e1. doi: 10.1016/j.echo.2022.02.010. Epub 2022 Mar 1. PMID: 35245668; PMCID: PMC10257802.

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