### Технические характеристики

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### Android

Lumify C5-2 Curved Array Transducer

- 5 to 2 MHz extended operating frequency range - 50mm radius of curvature - 2D, Pulsed Wave and color Doppler, M-mode, advanced XRES and multivariate harmonic imaging, SonoCT - High resolution imaging for deeper applications: abdominal, gall bladder, OB/GYN and lung imaging preset optimizations





Lumify is ready when you are.

With 2-5 hours of continuous scanning capabilities, it offers ongoing clarity in the most urgent situations.



#### Built for versatility.

Lumify features a detachable cable that offers the flexibility to replace damaged cables, and keep up with ever-evolving digital devices.



#### Ergonomic transducers.

Weighing less than 136 grams, Lumify's battery-free transducers give you lightweight control for ease-of-use and the ultimate advantage in portability.



Innovation happens every day.

With ongoing app updates, we'll keep you up-to-date by putting all our latest features at your fingertips.

# **Specifications**

#### Specifications

Field of view	67.5°
Applications	Abdomen, Gallbladder, Lung, OB/GYN
Bandwidth	5-2 MHz
Footprint	50 mm (ROC)
Scan depth	Up to 30 cm
Imaging fea- tures	2D, Pulsed Wave and color Doppler, M-mode, advanced XRES and multivariate harmonic imaging, SonoCT
Imaging fea- tures	2D, Pulsed Wave and color Doppler, M-mode, advanced xRes
	and multivariate harmonic imaging, SonoCT

#### Contains in the box

Outright Lumify purchase includes: Carry case, Manual

### Android

Lumify L12-4 Linear Array Transducer

- 12 to 4 MHz extended operating frequency range - Aperture size: 34mm - 2D, Pulsed Wave and steerable color Doppler, M-mode, advanced XRES, multivariate harmonic imaging, SonoCT and B-line detection in lung imaging - High resolution imaging for shallow applications: soft tissue, vascular, superficial, musculoskeletal and lung -Center line marker - USB-C transducer with replaceable cable





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#### Ergonomic transducers.

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Share insights at the speed of need.

Lumify gives you the power to quickly send and share images, notes, and diagnostic data.\* Data is delivered via email, DICOM to PACS, a shared network, or a local directory. \*User is responsible for complying with patient data privacy regulations.



#### Global service.

As with all Philips products, Lumify comes with continuous support and global service to help keep you up and running. We've also created a Lumify FAQ page to offer answers to common questions.



#### Real-time collaboration.

Philips Lumify with Reacts offers a quick-connect platform to help you collaborate with other healthcare professionals using real-time 2-way video and audio calls and live ultrasound streaming.



#### No hidden fees.

Lumify is an ultrasound that offers straight-forward pricing for maximum accessibility, with no hidden fees. Because Lumify works on your existing compatible smart devices, there's no additional cost built-in for a monitor.

### Specifications

**Specifications** 

Field of view	34.5 mm
Applications	Lung, MSK, Soft Tissue, Superficial, Vasular
Bandwidth	12-4 Mhz
Footprint	34 mm
Scan depth	Up to 12 cm
Imaging features	2D, Pulsed Wave and steerable color Doppler, M-mode, advanced xRes,
	multivariate harmonic imaging, SonoCT and B-line detection in lung imaging

#### Contains in the box

Outright Lumify purchase includes: Carry case, Manual

## Android

Lumify S4-1 Phased Array Transducer

- 4 to 1 MHz extended operating frequency range - 2D, Pulsed Wave and color Doppler, M-mode, advanced XRES, multivariate harmonic imaging and B-line detection in lung imaging - High resolution imaging for abdominal and cardiac applications: cardiac, OB/GYN, lung, abdomen and FAST imaging preset optimizations





Lumify is ready when you are.

With 2-5 hours of continuous scanning capabilities, it offers ongoing clarity in the most urgent situations.



#### Built for versatility.

Lumify features a detachable cable that offers the flexibility to replace damaged cables, and keep up with ever-evolving digital devices.



#### Ergonomic transducers.

Weighing less than 136 grams, Lumify's battery-free transducers give you lightweight control for ease-of-use and the ultimate advantage in portability.



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# **Specifications**

#### Specifications

Field of view	90°
Applications	Abdomen, Cardiac, FAST, Lung, OB/GYN
Bandwidth	4-1 MHz
Footprint	20.2 mm
Scan depth	Up to 30 cm
Imaging features	2D, Pulsed Wave and color Doppler, M-mode, advanced xRes,
	multivariate harmonic imaging and B-line detection in lung imaging

#### Contains in the box

Outright Lumify purchase includes: Carry case, Manual

# **QLAB vascular analysis**

Vascular ultrasound quantification software

QLAB data analysis software offers insight that drives clinical decisions. Ultrasound image visualization tools help drive decisions to allow for high quality patient care. On or off-cart viewing enables enhanced department workflow efficiencies.



### Features

### **CMQ Stress**

Based on 2D speckle tracking technology, CMQ Stress provides a method for assessing global, regional, and local cardiac function at rest and peak exercise. Its fast and easy-to-use interface is designed specifically for stress echo exams.

### Vascular Plaque Quantification to quantify atherosclerosis

Vascular Plaque Quantification is a non-invasive tool that uses 3D technology to visualize and quantify both the overall volume of vascular plaque in the carotid artery and the percent area of vessel reduction, as well as other characteristics of plaque composition. VPQ may prove to be a valuable tool to aid in determining who is at an increased risk of stroke or cardiovascular disease based on this important measurement of plaque buildup in the carotid artery.

### Automated Cardiac Motion Quantification<sup>A.I.</sup> (aCMQ<sup>A.I.</sup>)

Automated Cardiac Motion Quantification<sup>A.I.</sup>(aCMQ<sup>A.I.</sup>) with ZeroClick technology for adult echo.The ZeroClick technology of the Automated Cardiac Motion Quantification<sup>A.I.</sup> (aCMQ<sup>A.I.</sup>) uses speckle mechanics to provide reproducible 2D Global Longitudinal Strain (GLS) speckle measurements. A proven EF is also calculated by using the Auto-ROI that drives the automation within the aCMQ<sup>A.I.</sup> Q-App.

# **QLAB cardiac analysis**

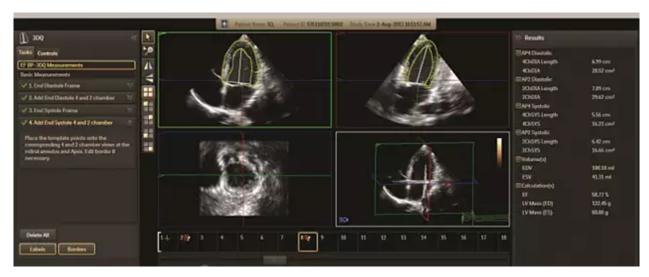
Cardiovascular ultrasound quantification software

QLAB helps you easily access data to drive decisions influencing quality patient care. Enhance department workflow efficiency by viewing and analyzing data on or off-cart.



### Automated Cardiac Motion Quantification<sup>A.I.</sup>(aCMQ<sup>A.I.</sup>)

Based upon 2D speckle tracking, aCMQ automatically places an ROI based upon the selected anatomical view and generates measurements of both global and regional myocardial functions. It also provides a table, 17-segment bull's-eye, and a variety of waveform displays. LV ejection fraction (EF), end systolic volume (ESV), and end diastolic volume (EDV) are also provided. This provides a fast and easy way to acquire both EF and GLS at the same time the images are acquired or post-exam on a workstation.



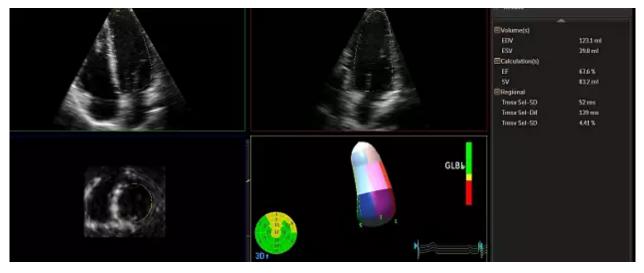
### Cardiac 3D Quantification (3DQ)

View, slice, and display 3D volumes with Cardiac 3D Quantification (3DQ). Measure distance and areas from 2D MPR views to get biplane LV volume, ejection fraction (EF), and LV mass calculations. Manipulate 2D planes for more accurate biplane 2D EF with no foreshortening.



### Region of Interest (ROI)

This Q-App provides echo contrast and color images helping you to extract acoustic data from images.



### Advanced Cardiac 3D Quantification (3DQA)

3DQA Measures LV endocardial volumes, stroke volume (SV), and true 3D ejection fraction (EF) using semi-automated border detection in 3D space. This offers timing assessment for each of 17 minimal regional volumes and determines a synchronicity index for all volume segments or a user-selectable group of volume segments. Use the semi-automated Q-App to measure global 3D ejection fraction with no geometric assumption, also providing simultaneous timing information for heart failure assessment.

# **QLAB** general imaging analysis

General imaging ultrasound quantification software

QLAB is a collection of advanced clinical tools that are fast, easy to use, and provide you with results that are reproducible and consistent, bringing confidence to every study.



### MicroVascular Imaging (MVI)

MicroVascular Imaging (MVI) uses specially designed post-processing software to map contrast agent progression. This software plug-in measures changes in the image from frame to frame, suppressing background tissue signals and capturing additional contrast data. The additional data obtained using MVI dramatically enhances vessel conspicuity.

### Elastography Analysis (EA)

This Q-app provides strain elastography analysis of tissue deformation based on an elastogram and provides decision support for tissue stiffness.

### General Imaging 3DQ (GI 3DQ)

GI 3DQ is 3D tools that support the viewing and quantification of 3D data sets. This allows you to view, crop, rotate, access, use all vision controls, and perform measurements on 3D ultrasound data sets.

### Intima Media Thickness (IMT)

This plugin provides easy and consistent measurement of intima media thickness in carotids and other superficial vessels.

### Vascular Plaque Quantification to quantify atherosclerosis

Vascular Plaque Quantification is a non-invasive tool that uses 3D technology to visualize and quantify both the overall volume of vascular plaque in the carotid artery and the percent area of vessel reduction, as well as other characteristics of plaque composition. VPQ may prove to be a valuable tool to aid in determining who is at an increased risk of stroke or cardiovascular disease based on this important measurement of plaque buildup in the carotid artery.

### Fetal Heart Navigator (FHN)

FHN provides a semi-automated protocol using 3D datasets to evaluate the fetal heart. This automates the initial ductal arch view and guides the novice user in obtaining views recommended in the ISUOG Fetal Cardiac Screening Guidelines<sup>A.I.</sup>

### Region of Interest (ROI)

QLAB ROI is designed for both contrast and 2D imaging to increase the consistency and reliability of acoustic measurements ^A.I.

## QLAB obstetrics and gynecology analysis

Obstetrics and gynecology ultrasound quantification software

QLAB image analysis software enables data visualization to help drive confident decisions. On or off-cart viewing enables enhanced department workflow.



### Elastography Analysis (EA) provides decision support

This Q-app provides strain elastography analysis of tissue deformation based on an elastogram and provides decision support for tissue stiffness.

### Women's Health GI3DQ for advanced viewing and quantification

GI3DQ tools support the viewing and quantification of 3D data sets. QLAB allows you to view, crop, rotate, access, use all vision controls, and perform measurements on 3D ultrasound data sets.

### MicroVascular Imaging (MVI) enhances vessel conspicuity

MicroVascular Imaging (MVI) uses specially designed post-processing software to map contrast agent progression. This software plug-in measures changes in the image from frame to frame, suppressing background tissue signals and capturing additional contrast data. The additional data obtained using MVI dramatically enhances vessel conspicuity.

### Fetal Heart Navigation helps evaluate the fetal heart

This software provides a semi-automated protocol using 3D datasets to evaluate the fetal heart. It automates the initial ductal arch view and guides the novice user in obtaining views recommended in the ISUOG Fetal Cardiac Screening Guidelines.

### Region of Interest (ROI) increases measurement consistency

The Region of Interest (ROI) quantification plug-in increases the consistency and reliability of acoustic measurements while reducing the effort required to successfully carry out ROI analysis. In addition, the ROI plug-in can minimize the time needed to analyze data from image content. The ROI plug-in provides result-driven tools for analysis of image content such as shape tools, image data content analysis, contrast intensity analysis, and many more features.

## **Q-Station software**

Philips Q-Station ultrasound workspace software

Q-Station software helps streamline workflow, perform advanced analysis and quantify your Philips echo data. Q-Station combines a suite of capabilities for a full range of off-cart functions, designed around your workflow needs.



# Integrated Q-Assistant and Q-Setups tools helps simplify configuration

Use Q-Assistant to configure options, media, connections and backup functions. Q-Setups tool allows configuration and customization of measurement and analysis packages, and includes tools for mapping non-Philips ultrasound measurements.

### Suite of functions for streamlined and personalized workflow

Build, customize and expand Q-App option capabilities for comprehensive analysis and quantification. Software allows for review of echo exams, 2D/3D analyses and quantifications, DICOM secondary capture saves, on-cart measurement review and editing, findings and comments reporting, and saving results.

### Advanced 3D visualization

Easily visualize ultrasound volume data using embedded QLAB Apps. View unlimited perspectives and planes from 3D data sets, including mitral valve anatomy. Save processed and rendered images back to patient study on Q-Station and export to the PACS. Simple and consistent quantification of cardiac structures, analysis of contrast data, evaluation of tissue in the breast, semi-automated fetal heart tool – these are just a few of the capabilities that can be built into Q-Station workspace.

### Cardiology applications

Discover dedicated stress quantification with QLAB's CMQ Stress App and 2D speckle tracking technology. In stress protocols, the wall motion scoring tool is linked automatically with the stages and anatomical views – just one click will change both view and stage for continual synchronized data. This software saves preferred sub-loops from EPIQ, Affiniti, and iE33 systems, providing a new level of workflow designed around stress echo studies, and increasing productivity. It also offers step-by-step user interface and controls that adapt to acquisition protocol. It is quick to learn and easy to integrate into workflow.

### Q-Station is the axis of your workflow

With Q-Station you can manage and view patient studies and create reports. You can also retrieve data from local databases, CD/DVD/USB drives, and PACS. It also allows you to copy, move and merge studies, plus email reports. Adult and Pediatric echo, and Vascular analysis packages are available in addition to multi-modality image viewing. Q-Station also enables advanced visualization and quantification with available seamlessly integrated Q-Apps.

### QLAB options provide advanced quantification and analysis

Obtain ejection fractions in less than a minute and objectively assess left ventricular global function. Save time with Automated ROI tracking, which also increases reproducibility among users. Extensively analyze 2D images, view unlimited perspectives and planes from 3D data sets, and assess mitral valve anatomy. All analyzed and extracted data flows to the report seamlessly.

### Cardiology applications

Q-Station combines the latest speckle tracking technology and wall motion scoring capabilities for increased ease of use and accuracy. The integrated wall motion scoring (WMS) tool allows manual scoring on anatomic and 17-segment bull's-eye graphical representations. QLAB's CMQ (Cardiac Motion Quantification) App allows you to extract a wide range of motion parameters from stored data sets at any time, facilitating quality assurance, collaborative clinical decision making, and case reviews without the need for repeat exams.

### View non-ultrasound images such as CT, MR, XA, NM, and more

Reference viewing of non-ultrasound images allows a big picture view of the patient. View images from other procedures side-by-side with ultrasound to visually track the patient's continuum of care.

### Tools to assess the anatomy and help find the answers

View and edit measurements made on the cart, and perform new measurements and calculations using adult echo, pediatric echo or vascular templates. Save measurements and calculations to the report. Create user-defined measurements and map DICOM SR measurements from 3rd party ultrasound sytems.

# **Q-Station general imaging software**

Philips Q-Station ultrasound workspace software

Q-Station software helps quantify your general imaging data, perform advanced analysis, and streamlines workflow. Q-Station offers a full range of off-cart capabilities designed around your workflow needs.



### QLAB options provide advanced quantification and analysis

Build, customize and expand Q-App option capabilities for comprehensive analysis and quantification. Obtain ejection fractions in less than a minute, objectively assess left ventricular global function, extensively analyze 2D images, view unlimited perspectives and planes from 3D data sets, and extract data into the report.

### Suite of functions for streamlined and personalized workflow

Software allows for review of echo exams, 2D/3D analyses and quantifications, secondary capture saves, on-cart measurement review and editing, findings and comments reporting, and saving results.

### Q-Station is the axis of your workflow

Manage patient studies, series, images and reports. Retrieve data from local databases, CD/DVD/USB drives, and PACS. Copy, move and merge studies, plus email draft reports.

### Integrated Q-Assistant tool helps simplify configuration

It helps you quickly and easily adapt to your lab's workflow when you add new capabilities. Configure options, media, connections and backup functions.

### Tools to assess the anatomy and help find the answers

View and edit measurements made on the cart, and perform new measurements and calculations using adult echo, pediatric echo or vascular templates. Save measurements and calculations to the report. Create user-defined measurements and map DICOM SR measurements from 3rd party ultrasound sytems.

### Advanced quantification

Customize capabilities and expand at any time. Obtain ejection fractions in less than a minute, assess left ventricular global function, and extensively analyze 2D, M-mode and Doppler images. Save time with Automated ROI tracking, which also increases reproducibility among users. View unlimited perspectives and planes from 3D data sets, including mitral valve anatomy. All analyzed and extracted data flows to the report seamlessly.

# View non-ultrasound images such as CT, MR, X-ray Angiography, NM, and more

Reference viewing of non-ultrasound images allows a big picure view of the patient. View images from other procedures side-by-side with ultrasound to visually track the patient's continuum of care.

### Shared service general imaging applications (GI 3DQ)

3D tools that support the viewing and quanification of 3D data sets. View, crop, rotate access to visions controls, and perform everyday measurements on 3D ultrasound data sets. Save processed and rendered images back to patient study on Q-Station and export to the PACS.

### Vascular applications (VPQ)

VPQ uses 3D technology to visualize and quantify the overall volume of atherosclerotic plaque in the carotid artery. Automatically measure plaque burden throughout the captured volume. Measure the percent area of vessel reduction and other characteristics of plague composition. Save processed and rendered images back to patient study on QStation and export to PACS.

#### Shared service general imaging applications

Provides strain elastography quantification of tissue deformation based on an elastogram and provides decision support for tissue stiffness. Save images back to the patient study in Q-Station and export to PACS.

### Vascular applications (IMT)

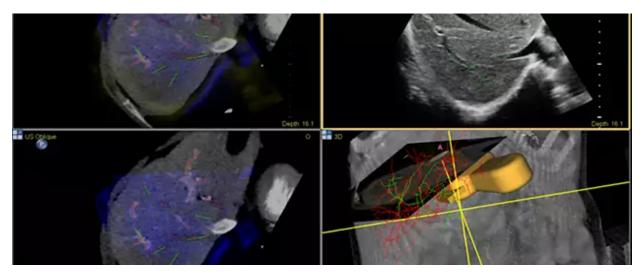
IMT provides easy and consistent measurements of intima media thickness in carotids and other superficial vessels. Save measurements back to the patient study on Q-Station and export to PACS.

### **Fusion and Navigation**

Enhanced clinical confidence with your interventional procedures

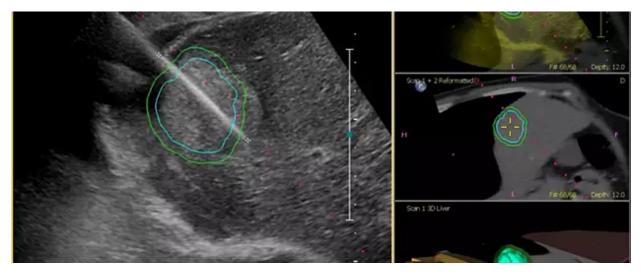
Philips Fusion and Navigation enables multi-modality image fusion and needle navigation with Ultrasound, empowering the user to make confident decisions even in challenging cases. Streamlined workflow allows clinicians to achieve fast and effective fusion of CT/MR/PET/CBCT images with live ultrasound in under 1 minute, while needle navigation aids in guiding procedures for small or difficult-to-access lesions. Enhance the experience for patients and staff, streamline your workflows, and drive better outcomes.





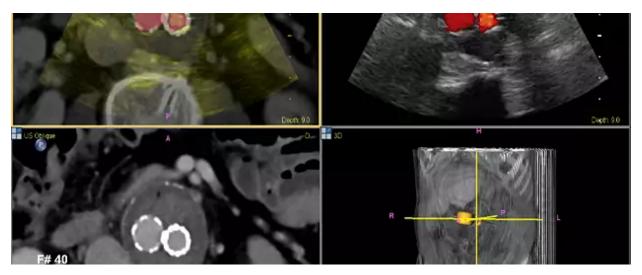
#### New levels of simplicity with Auto Registration

Featuring our most powerful architecture that touches all aspects of acoustic acquisition and processing, allowing ultrasound to evolve to a more definitive modality: Auto Registration allows Fusion and Navigation to provide successful alignment of CT or MR volumes to ultrasound in under one minute for the effective characterization of lesions. Registration of two imaging modalities by conventional methods can be time-consuming and technically challenging, often taking up to 10 minutes to achieve successful fusion. Automated fusion in less than one minute allows for more time to focus on the procedure ahead and less time ensuring accurate fusion registration.



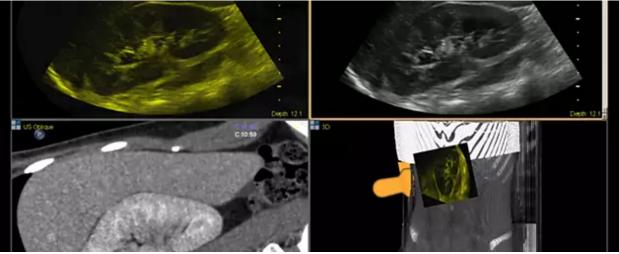
#### Outline a 3D contour to help visualize your target

Tumor contour is a semi-automated tool that helps outline a 3D contour around a structure of interest. The clinician can easily plan and target a lesion during an interventional procedure, and help improve procedure guidance even in challenging cases where the lesion may not be visually obvious under ultrasound. The lesion can be rendered in 3D or 2D via a complementary modality and overlaid on the live ultrasound or CT, helping visualize the location in relation to surrounding critical structures.



### Advanced needle navigation

With a reusable adaptive needle tracker and expanded range of coaxial needle-tip tracked instruments, fusion and navigation offers you a wide range of compatibility with biopsy and ablation devices depending on the degree of procedure complexity. Needle navigation is a performance-enhancing tool for challenging interventional cases such as a hard-to-visualize small-lesion biopsy or difficult-to-access ablations that are close to critical structures. Complete procedures in less time and with fewer confirmatory scans.



#### Fully integrated multi-modality fusion

Fusion and Navigation addresses the pressure physicians face to reduce costs and procedure time, by enabling a multimodality fusion approach across various clinical scenarios. Achieve fast and effective fusion of CT/MR/PET with live ultrasound to make confident decisions even in challenging cases. Fusion and Navigation can also be used alongside Contrast-Enhanced Ultrasound. By combining imaging modalities directly on the ultrasound system, you now have access to advanced visualization tools, allowing for fast decisions. Utilize fusion in the abdomen, prostate, breast, or small parts while reducing time and dependence on other imaging techniques.

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