



Streamlined workflow solutions

Philips Q-Station ultrasound workspace software

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sense and simplicity

Managing your off-cart workflow

Everyone is being asked to do more with fewer resources – it's especially the situation in today's healthcare community. Workflow is constantly changing as departments adapt to new requirements and work within limited budgets. Whether in the echo, vascular, women's healthcare or general imaging ultrasound lab, workflow must be efficient from the first exam through the last analysis every day. Philips new Q-Station workflow software allows you to streamline workflow for ultrasound data management, while performing advanced analysis and quantification of patient's image data. Q-Station combines a suite of capabilities for a full range of off-cart functions, allowing you to design workflow around your needs – keep your ultrasound systems busy scanning patients, maximize schedule and staff efficiencies, and increase productivity.

Q-Station is the ideal data management and analysis tool for private practices, clinics, and small hospitals. It's a very affordable solution that uses your PC equipment and supports what you need, from basic abilities such as echo and stress echo viewing and reporting, and 2D image analysis, to advanced 3D quantification and visualization. Q-Station allows you to connect to your existing PACS to save and share your data and 3D manipulations.

Enhanced workflow and productivity

Q-Station offers a suite of tools for patient-based study organization and workflow, facilitating complete review and analysis of exam data. You can pull DICOM data directly from your ultrasound systems or from your PACS, perform your analysis, report findings



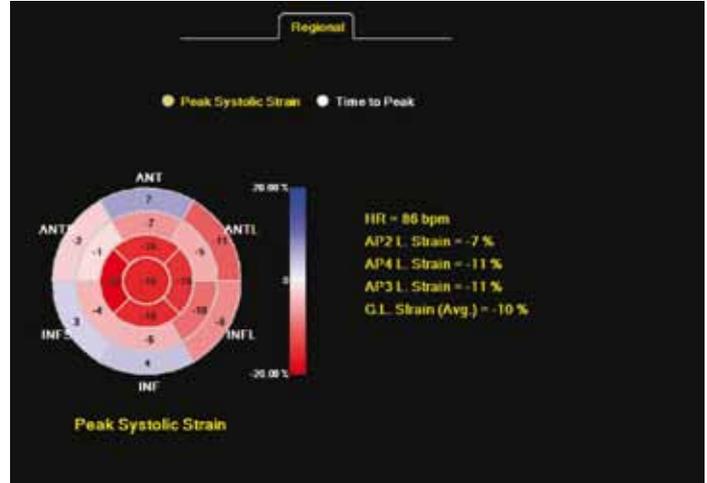
and comments, and save results to connected devices. You can export your results in DICOM or PC formats, easily anonymize patient information using robust DICOM and image masking tools, and include new Ultrasound DICOM viewer software for easier sharing. Q-Station frees your ultrasound systems to keep patient exams on schedule, while increasing your department's productivity.

The integrated Q-Assistant tool makes it easy to configure your options, media, connections and backup functions. It helps you quickly and easily adapt to your lab's workflow when you add new capabilities.

Connecting your resources

Q-Station is the axis of your workflow. You can manage patient studies, series, images and reports. Retrieve data from your local databases, CD/DVD/USB drives, and your PACS. Copy and move studies between locations, merge studies, and email draft reports. The results: streamlined workflow designed around your needs.

With Q-Station, you can pull DICOM studies directly from ultrasound systems, and perform analysis on data from a range of Philips systems – iE33, iU22, CX50, HD15, HD11 XE, HD7 XE – with QLAB plug-ins. This keeps your ultrasound systems scanning, increasing patient throughput every day. Q-Station also accepts data from your Philips StressVue ECG system for integrated echo and ECG reporting.



The CMQ results provide an objective assessment of Global Longitudinal Strain.

Draft - Demonstration Software - Not for Official Interpretation -
CONNECT, ECG - Patient ID:12261620100224 - Study Date:2/17/2010

Report
Echo Lab, Philips Healthcare

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Demographics

Patient Name:	CONNECT, ECG	Date of Birth:	3/8/1987
Patient ID:	12261620100224	Age:	
Gender:	Male	Weight:	54.432 Kg
Height:	1.6764 m	Sonographer:	
Study Date:	2/17/2010		
Ref. Physician:	Cardiologist		

Advanced Analysis

View	HR: 86 BPM	WMS: 1 % Normal: 100
1 - Rest		
2 - Ingest		WMS: 1.06 % Normal: 94.12

WMS Legend

1. Not Normal	2. Not Normal	3. Normal	4. Hypokinetic
5. Ischemic	6. Myocardial	7. Normal	8. Myocardial

The Q-Station Stress integrated report can display both left ventricle bulls-eye plots with wall motion scoring and strain analysis side by side and per stage.

Cardiology applications

Cardiology users can review echo and stress echo studies, analyze 2D and 3D images using QLAB plug-ins, perform wall motion scoring using the 17-segment model, and review measurements made on the cart.

Smart wall motion scoring

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 plug-in 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.

Dedicated stress quantification

Q-Station provides the first fully dedicated stress quantification with QLAB's CMQ Stress plug-in, along with the next generation of 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 so you're always looking at synchronized data. Q-Station's step-by-step user interface and controls adapt to your acquisition protocol and provide you with an experience similar to Philips ultrasound systems. It's quick to learn and easy to integrate into your workflow.



Obtaining accurate, consistent speckle tracking results is easy with CMQ on Q-Station.

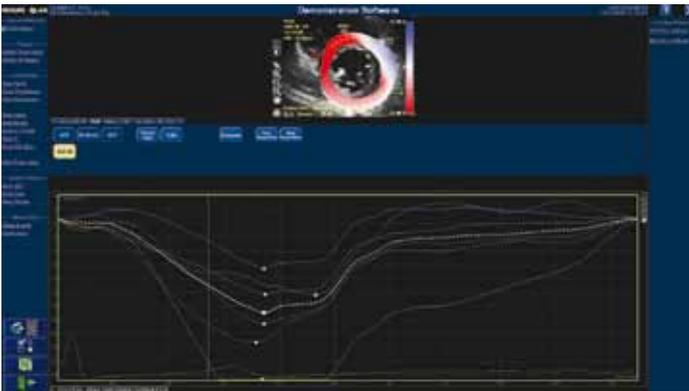
Easy stress echo viewer

Q-Station's integrated stress viewer is easy to use. It automatically shuffles the stages and views according to your preference. The stress viewer also saves your preference of sub-loops from the iE33 system, providing a new level of workflow designed around stress echo studies, and increasing productivity.

Comprehensive quantification

Echo quantification on Q-Station is powered by QLAB plug-ins, allowing you to customize your capabilities, and expand at any time. 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, assess mitral valve anatomy and quantify function, and extract data for reports – these are just a few of the capabilities you can build into your Q-Station workspace for comprehensive analysis and quantification.



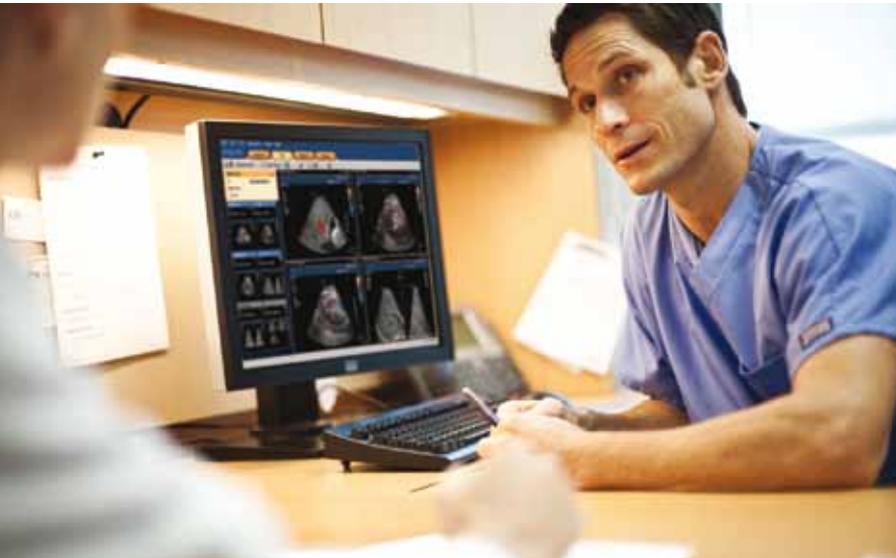


Stress ECG data is integrated in QLAB for side-by-side comparison to the strain waveforms.

QLAB plug-ins define your Q-Station cardiovascular analysis and quantification capabilities

Plug-in	Full name	Description
CMQ	Cardiac Motion/Mechanics Quantification	Robust and objective assessment of left ventricle global function and regional wall motion, deformation and timing using the latest 2D speckle tracking technology.
CMQ Stress	CMQ Stress Cardiac Motion/Mechanics Stress Quantification	Completes the CMQ plug-in and helps objectify stress echo review. CMQ Stress offers the unique combination of Philips 2D PureWave images, next generation 2D speckle tracking and a user interface designed specifically around stress echo users. The user interface auto adapts to stress acquisition protocols facilitating navigation and workflow. The comprehensive summary page report includes side-by-side display of LV 17-segment bull's-eye format from each stress stage. The StressVue ECG Connect option integrates and displays full disclosure ECG traces by stage on the report.
MVQ	Mitral Valve Quantification	For precise 2D and 3D quantification of mitral valve anatomy and associated structures based on data acquired with Philips iE33 system and X7-2t TEE transducer.
3DQA	Advanced 3D Quantification	Provides a complete suite of tools for manipulation, measurement, quantification, display, and assessment of 3D data sets, including LV endocardial volumes, stroke volumes, true 3D ejection fractions, and global and regional LV volumes based on ACC 17-segment model.
3DQ	Cardiac 3D Quantification	Use of all 3D manipulation tools and vision controls to perform advanced measurements on Live 3D Echo data sets, such as biplane LV mass and ejection fraction.
IMT	Intima Media Thickness	Enables automated measurement of intima media thickness in carotids and other superficial vessels.
ROI	Region of Interest	For contrast echo imaging, tissue analysis, and color Doppler.
2DQ	2D Quantification	Fast, reproducible analysis of 2D LV volumes and ejection fractions provides objective assessment of global function.
PQ	Parametric Quantification	Advanced review and analysis of contrast intensities within the heart, providing color-coded representation of contrast intensity and replenishment rate based on log or linear scaling.
SQ	Strain Quantification	Quantitative capabilities to help assess regional myocardial function plus assessment of synchronicity and guidance during bi-ventricular pacing procedures.

Shared Service applications



Advanced 3D visualization

Q-Station offers a suite of tools for patient-based study organization and workflow, facilitating complete review and analysis of exam data. The simple user interface allows easy access to patient studies. You can easily visualize ultrasound volume data using embedded QLAB plug-ins, and save rendered images back to your PACS.

QLAB shared service applications on Q-Station allow you to perform analysis on 2D and 3D exam data. Easy and consistent quantification of vascular, abdominal, and gynecological structures, analysis of contrast data, evaluation of tissue in the breast, semi-automated fetal heart tool – these are just a few of the capabilities you can build into your Q-Station workspace for comprehensive analysis and quantification.

QLAB plug-ins define your Q-Station analysis and quantification capabilities

Plug-in	Full name	Description
VPQ	Vascular Plaque Quantification	Uses 3D technology to visualize and quantify the overall volume of atherosclerotic plaque in the carotid artery. VPQ automatically measures Plaque Burden, or how much plaque is present throughout the captured volume. VPQ also measures the percent area of vessel reduction and other characteristics of plaque composition.
IMT	Intima Media Thickness	Provides easy and consistent measurement of intima media thickness, which has a strong prognostic value for cardiovascular events, in particular stroke and myocardial infarction.
GI 3DQ	GI 3D Quantification	Supports the opening, viewing, and quantification of 3D data sets from Philips ultrasound systems, such as the iU22 system. GI 3DQ allows users to view, crop, rotate, access, and use all vision controls, and perform everyday measurements on 3D ultrasound data sets, such as volume measurements for obstetrical studies. iSlice multi-slice (4, 9, 16, or 25 images) display provides quick review of volumetric data obtained from freehand, mechanical, and electronic volume acquisition. iSlice is particularly helpful when reviewing volumetric data of the uterus and ovarian cysts. Curved iSlice is useful for presenting fetal spines, and in creating stunning rendered baby faces. The volume data containing color Doppler provides the necessary tools in the assessment of ovarian vascularity.
FHN	Fetal Heart Navigator	Provides a semi-automated protocol to evaluate the fetal heart. FHN guides the user in obtaining views recommended in the ISUOG Fetal Cardiac Screening Guidelines; 4-Chamber, LVOT, and RVOT.
EQ	Elastography Quantification	Provides an adjunct breast imaging technique that determines if an area of tissue is hard or soft. Abnormal tissue tends to be harder than surrounding tissue.
MVI	MicroVascular Imaging	Maps contrast agent progression and enhances vessel conspicuity in breast imaging.
GI PQ	General Imaging Parametric Quantification	Aids in the review and analysis of contrast wash in/wash out intensities, expressing that data in an easy-to-interpret, color-coded format.
ROI	2D and Color ROI quantification	2D and Color ROI quantification with motion compensation increases the consistency and reliability of acoustic measurements while reducing the effort required to successfully carry out ROI analysis.

Services – performance and uptime

Increasing the performance and uptime of your system is imperative to delivering high quality patient care. With Philips Remote Services, your systems are securely connected to our global Customer Care Centers. Philips Remote Services use the latest remote desktop sharing technologies to efficiently provide helpful guidance for application and configuration questions. This assures that your systems operate at peak performance so that you can focus on delivering your best patient care.



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Royal Philips Electronics**

How to reach us

www.philips.com/healthcare
healthcare@philips.com

Asia

+49 7031 463 2254

Europe, Middle East, Africa

+49 7031 463 2254

Latin America

+55 11 2125 0744

North America

+1 425 487 7000

800 285 5585 (toll free, US only)

Please visit www.philips.com/qstation



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