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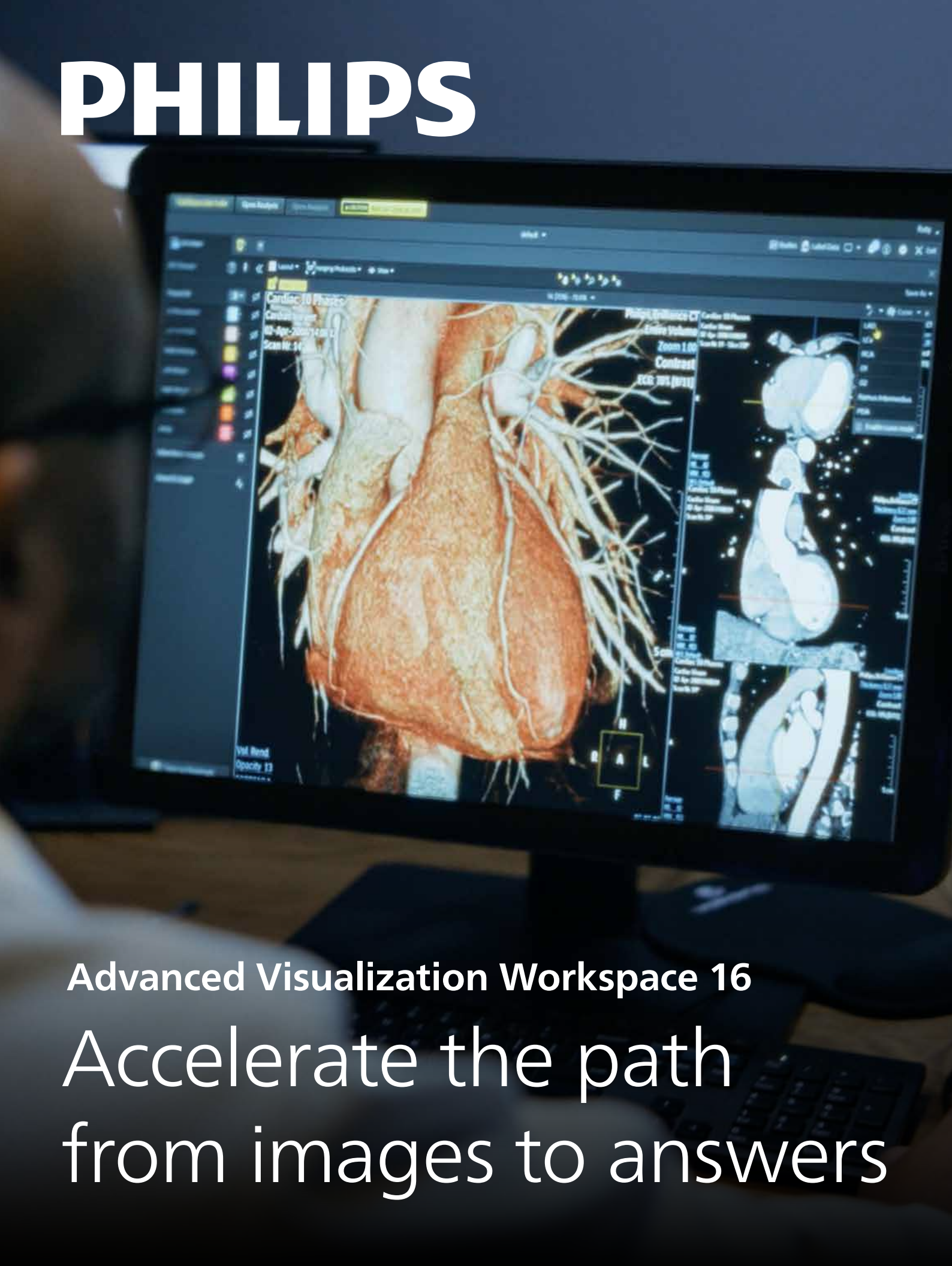

Advanced Visualization Workspace 16

Accelerate the path from images to answers

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● New application ● Enhanced application

(1) Optional module available in addition to AV Vascular.
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(5) MR Caas can be launched from AVW.
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(8) Zero Footprint Viewer is not intended for diagnostics. Please contact your Philips representative for more details.
(9) Zero Footprint Viewer is not intended for diagnostics image review. Please observe the requirements that apply to this feature on the AVW16 Technical Datasheet and contact your Philips representative for more details.
(10) Not intended for diagnostic use.
(11) Not available in the USA. Please contact your Philips representative for more details.
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(14) CT Pulmo Auto Results are not intended to replace the interpretation of the diagnostic image. CT Pulmo Auto Results are not intended to replace the interpretation of the diagnostic image. This application is not available for sale in the USA and it is not available in all markets. Future availability cannot be ensured. Please contact your local Philips representative for more details.
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(21) Emory Cardiac Toolbox, ECTb, HeartFusion, and SyncTool are registered trademarks of Emory University. Manufactured/distributed by Syntermed, Inc.
(22) NeuroQ is a trademark of Syntermed, Inc.

All third-party software solutions integrated with AVW16 are decision-support tools intended for use by qualified medical professionals and are not intended as the sole basis for clinical diagnosis or clinical decision-making. Users must refer to each vendor's Instructions for Use for complete indications, contraindications, precautions, and market availability.

Accelerate the path from images to answers

Advanced Visualization Workspace 16 is designed to deliver fast results and clinical confidence across specialties, powered by automation and AI. The rich portfolio of applications covers a breadth and depth of clinical needs, with capabilities incorporated into user-centric, guided workflows that **can help simplify reading, support clinical confidence and reduce time to diagnosis.**

Speed-up confident diagnosis with clinical insights

Advanced Visualization Workspace 16

1 **Support reading with a user-centric solution** and AI-powered, automated workflows

2 **Support clinical confidence** with deep clinical insights

3 **Streamline end-to-end clinical workflows** facilitating reporting and pre procedure planning

4 **Enable scalability** with multi-vendor and multimodality solution built on a robust IT infrastructure

Multiple clinical domains, one standard for facilitating the diagnosis process

Philips Advanced Visualization Workspace 16 helps you extend your clinical depth and coverage. Leverage a wide range of applications, designed for intelligent workflow and automation. Spanning multiple clinical domains including oncology, cardiovascular, neurology, and pulmonary, these applications offer the flexibility to access, analyze, and quantify patient data in one unified view.

Multiple modalities, one rich view

Philips Advanced Visualization Workspace handles CT, MR, MI, US, XA, DSA, and DXR data from multiple vendors[1] within a consistent Multimodality viewing environment, providing you a view of the patient's condition. Philips Advanced Visualization Workspace 16 includes the new AV Viewer. It is a multi-modality environment designed for image review. It provides users with tools to define and customize their own workflows, capture and manage findings, review prior studies, and access results. The viewer also supports exporting results in the form of a summary report.

Multiple advanced tools, one consistent workflow

Designed to optimize your workflow, Philips Advanced Visualization Workspace 16 supports consistency across applications. Philips Advanced Visualization Workspace 16 introduces a dedicated Cardiovascular Suite, offering a consistent workflow and specialized tools designed to support the full range of cardiovascular clinical questions.

One solution for today and tomorrow

Advanced analysis is changing rapidly. Stay at the forefront of clinical innovation available in Philips Advanced Visualization Workspace with our newly updated Philips RightFit Service Agreements[2]. The service solution allows you to take advantage of a steady stream of clinical and IT innovations including clinical applications support on demand and consulting services.

(1) Please contact your local Philips representative for details about multi-vendor coverage
(2) Consult your local Philips representative for information on RightFit Service Agreements

Advanced Visualization Workspace powered by Artificial Intelligence

- actionable insights for precision diagnosis

The value of Artificial Intelligence lies in embedding clinical insights into everyday workflows, helping clinicians make informed decisions along the care pathway. To be effective, AI must work in combination with human expertise and awareness of the clinical and operational context.

In Philips Advanced Visualization Workspace, AI capabilities continue to evolve and are applied across multiple applications, including CT Liver Analysis with automated liver and spleen segmentation[1]; Lung Nodule Analysis with ClearRead[2] CAD; AV Vascular with AI-based, automatic aorta and iliac outer-wall segmentation; ASPECT scoring[3]; and additional supported use cases. These AI-driven enhancements are designed to provide an efficient user experience within the diagnostic workflow.

(1) CT Liver Analysis includes different versions wich depend on local regulatory approvals. This version and capabilities are not available in the U.S.A
(2) ClearRead CT is a trademark of Riverain Technologies inc.
(3) This application is not available for sale in the USA. Future availability cannot be ensured.

Clinical focus areas

Neurology

Neurological disorders represent a major global burden, ranging from neurodegenerative diseases to brain tumors, stroke and other brain conditions. Often, in such cases, depth and speed of analysis can have direct correlation to patient prognosis. Neurological cases can be challenging, especially stroke, where you need to act fast. By providing qualitative and quantitative assessment of brain images combined with analysis and quantification of vascular occlusions, advanced visualization helps physicians assess brain tissue affected by ischemic stroke and determine the access route for recanalization. In the stroke domain, the Advanced Visualization Workspace provides automated CT ASPECT scoring [(1)(2)] with results readily available on PACS. It also offers an automated brain perfusion workflow that assists in identifying regions of reduced cerebral blood flow relative to the contralateral hemisphere, with results conveniently accessible on PACS.

For patients with multiple sclerosis (MS), Philips' Longitudinal Brain Analysis application empowers clinicians to generate FLAIR* series and visualize subtle changes in white matter over time.

(1) Not available for sale in USA
(2) These functionalities may not be available in all territories. Future availability cannot be ensured. Please contact your Philips representative for more details.
(3) NeuroQuant is a trademark of CorTechs Labs, Inc.
(4) Mirada is a registered trademarks of Mirada Medical Ltd.
(5) NeuroQ is a trademark of Syntermed.

Neurology applications

- AV Vascular
- CT Brain Perfusion
- CT ASPECT scoring[(1)(2)]
- CT Spectral Viewer
- CT Spectral Light Magic Glass
- CT Spectral Magic Glass on PACS
- MR Longitudinal Brain Analysis
- MR NeuroQuant[(2)(3)]
- MR Diffusion
- MR T2* Neuro Perfusion
- MR Advanced Diffusion Analysis
- MR FiberTrak
- MR Permeability
- MR SpectroView
- MR Brain Function Analysis
- MR Image Algebra
- MR MobiView
- NM Mirada Viewer[(4)]
- NM NeuroQ(25)
- NM NeuroQ Amyloid[(2)(5)]

Oncology

Cancer is increasingly managed in interdisciplinary teams and with more longitudinal data points than ever, requiring a comprehensive approach. Integration along the cancer care continuum is therefore critical in order to enhance patient experience and patient care. Advanced Visualization Workspace 16 offers an extensive portfolio of multi-modal post-processing applications ranging from screening and diagnosis to treatment planning and follow-up. It provides an integrated advanced visualization solution along the cancer care continuum. With automated, volumetric segmentation and quantification, multi-parametric tumor analyses, advanced response criteria across multiple time points or dedicated capabilities to aid in treatment planning, Advanced Visualization Workspace 16 supports clinical workflows at critical phases of patient care.

(1) These functionalities may not be available in all territories. Please contact your Philips representative for more details.
(2) ClearRead CT is a trademark of Riverain Technologies inc.
(3) CAD functionality not available for sale in the USA. Future availability cannot be ensured.
(4) This product includes different application versions, which may not be available in all countries. Availability depends on local regulatory approvals. For availability details please contact your local Philips representative.
(5) VeraLook is a trademark of iCAD inc. and is available for sale only in the USA.
(6) Mirada is a registered trademarks of Mirada Medical Ltd.

Oncology applications

- Multi Modality Tumor Tracking
- Multi Modality Tumor Tracking qEASL
- CT Lung Nodule Assessment
- CT Lung Nodule analysis ClearRead CAD (add-on)[(1)(2)]
- CT Lung Nodule CAD[(3)]
- CT Liver Analysis[(4)]
- CT Virtual Colonoscopy
- CT Virtual Colonoscopy Veralook CAD (add-on)[(5)]
- CT Spectral Viewer
- CT Spectral Light Magic Glass
- CT Spectral Magic Glass on PACS
- CT Spectral Tumor Tracking
- MR Longitudinal Brain Analysis
- MR Diffusion
- MR Advanced Diffusion Analysis
- MR Permeability
- MR SpectroView
- MR T1 Perfusion Analysis
- MR Image Algebra
- MR MobiView
- NM Suite
- NM Mirada Viewer[(6)]

Cardiovascular

Cardiovascular care demands precision and efficiency. Philips Advanced Visualization Workspace 16 with the integrated Cardiovascular Suite provides clinicians with a consistent workflow and dedicated tools to address the wide spectrum of cardiac and vascular questions, from diagnosis to pre-procedural planning, aimed at supporting confident decision-making and streamlined patient care.

Bring advanced diagnostic imaging even closer to the interventional suite by integrating it with Advanced Visualization Workspace 16 which automatically launches prior analysis results directly into the interventional suite.

Advanced Visualization Workspace 16 introduces a redesigned, results-driven user experience for the analysis of cardiovascular CT and MR imaging. The coronary artery disease pathway has been enhanced with automated centerline creation for patients with coronary artery bypass grafts, as well as new tools to assess coronary arteries during pre-operative planning for percutaneous coronary interventions (PCI).

Additionally, the Vascular Analysis application now features AI-based, automatic segmentation of the aorta and iliac walls, along with automatic subclavian artery segmentation for CT whole-body cases.

(1) This application is not available in all markets. Future availability cannot be ensured. Please contact your local Philips representative for more details.
(2) 3mensio and Caas are trademarks of Pie Medical Imaging B.V.
(3) These functionalities may not be available in all territories. Please contact your Philips representative for more details.
(4) MR Caas can be launched from AVW.
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(6) Corridor4DM is a registered trademark of Invia, LLC.
(7) Cedars-Sinai Cardiac Suite is a registered trademark of Cedars-Sinai.
(8) Emory Cardiac Toolbox, ECTb, HeartFusion, and SyncTool are registered trademarks of Emory University. Manufactured/distributed by Syntermed, Inc.

Cardiovascular applications

- AV Vascular
- CT Coronary Analysis
- CT Functional Analysis
- CT PCI Planning
- 3mensio - Structural Heart[(1)]
- Cardiac MR
- Cardiac MR Quantitative Mapping
- Cardiac MR Perfusion Analysis
- MR QFlow
- MR Cardiac Whole Heart
- MR Caas 4D flow[(2)(3)(4)]
- MR Caas Strain[(2)(3)(4)]
- CT Calcium Aumomated Analysis[(5)]
- CT Calcium Scoring
- CT TAVI Planning
- CT Spectral Viewer
- Spectral Cardiac CT
- NM Suite
- NM Corridor4DM[(6)]
- NM Cedars-Sinai Cardiac Suite[(3)(7)]
- NM Emory Cardiac Toolbox[(3)(8)]
- NM Emory Cardiac Toolbox HeartFusion[(3)(8)]
- NM Emory Cardiac Toolbox SyncTool[(3)(8)]

AV Cardiovascular Suite: extensive cardiac care, anywhere

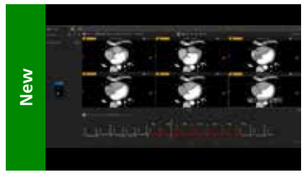
Delivering a next-generation, all-in-one cardiovascular solution, Philips' new **Cardiovascular Suite** empowers clinicians with a fully integrated, scalable platform for advanced cardiac CT, MR, and vascular imaging. Your analysis becomes streamlined and standardized – with a findings dashboard providing you and other stakeholders with an at-a-glance visibility into the studies and findings that matter most for diagnosis and onward treatment.

The new Cardiovascular Suite includes:

- **Cardiac MR**, which allows you to analyze cardiac MR studies and imaging data in a single, all-in-one environment
- **AV Cardiac CT** with coronary and functional CT analysis tools to give you a consolidated view of your patient's heart health, and a dedicated planning module to assist in preparation of cardiac interventions (e.g percutaneous coronary interventions)
- **AV Vascular** AV Vascular is designed for visualization, assessment, and quantification of vessels in CTA and MRA datasets, offering a unified workflow for both modalities. It includes a dedicated planning module with tools to support vascular interventional procedure planning

The design of the Cardiovascular Suite is aimed at bridging diagnosis and intervention, bringing together cardiac CT, vascular analysis, and cardiac MR in one environment. By combining diagnostic insight with dedicated planning tools, it provides an integrated approach to enterprise cardiac imaging and supports clinicians throughout the care pathway.

Cardiovascular Suite Applications



AV Viewer: One view to all modalities

✓ General

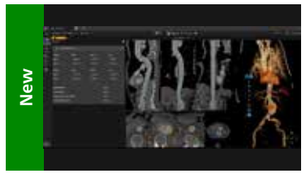
The new **AV Viewer** aimed to deliver a streamlined, reading experience across imaging modalities, CT, MR, US, PET, and more. All within a unified interface. Featuring customizable hanging protocols, spectral data support, and a centralized findings dashboard, it simplifies visualization and communication. AV Viewer is now a standard part of the Advanced Visualization Workspace 16 offering, bringing modernized, efficient workflows to both new and existing Philips customers.

The AV Viewer provides a set of tools for the visualization of one or multiple cardiac phases using original images or MPR\MIP images in axial, coronal, sagittal or dedicated cardiac axes (short axis, horizontal long axis, and vertical long axis). Automatic removal of the rib-cage structures enables a 3D anatomical Volume Rendering image of the heart and the large blood vessels connected to it.

To process original Philips spectral data within the AV Viewer, a dedicated license must be purchased.

Integrated by Design: AV Viewer and AV Cardiovascular Suite

The AV Cardiovascular Suite is delivered with the AV Viewer as part of the standard configuration. This powerful combination streamlines clinical workflow through hanging protocols, intuitive navigation, and a unified findings dashboard that consolidates measurements and results into a single, holistic patient view



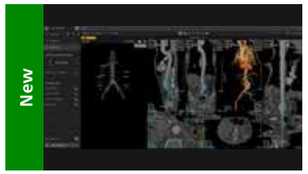
Streamlined Vascular Assessment and Planning in CTA and MRA

✓ Cardiology
✓ Vascular
✓ Neurology
✓ Surgery

AV Vascular is designed to support clinicians in the visualization, assessment, and measurement of vascular anatomy across CTA and MRA datasets. The application enables evaluation of vascular lesions including cerebral and carotid stenosis, aortic aneurysms, and peripheral arterial disease through a unified workflow for both modalities.

Key features:

- Workflow-enhancing automation including automatic bone removal, vessel extraction, labeling, and contouring for head/neck and body on CTA data
- AI based, automatic aorta and iliac outer wall segmentation on CTA data
- Capture, label, review, and export multiple findings, including basic vascular measurements for intra-luminal diameter, cross-sectional lumen area, segment lengths, angles, tortuosity and more.
- Interactive editing tools to support diagnostic accuracy and confidence



AV Vascular Planning Module

✓ Vascular
✓ Radiology
✓ Surgery

The **AV Vascular planning module**[1] is available through a license purchase within AV Vascular. It provides tools to help plan vascular interventional procedures for CTA data.

Key features:

- Automatic ring markers for mesenteric and renal artery ostia on CTA scans
- Preprocedural planning tools such as aortic outer/inner curvature length, clock-positions, c-arm projection, ring markers and more.
- Schematic planning view to support interventional procedures
- Editing tools to create and edit a planning view
- Results and screen captures can be saved and exported by the user.

[1] Optional module available in addition to AV Vascular.

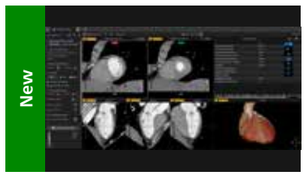
CT Coronary Analysis

✓ Radiology
✓ Cardiology

CT Coronary Analysis is designed to assist the user in viewing, analyzing, and quantifying dedicated cardiac CT angiograms and aids in the evaluation of coronary artery disease. The application can automatically extract coronary artery segments and offers labeling for major vessels.

CT Coronary Analysis offers the following functionalities:

- Automatic centerline detection extends to complex anatomies
- Empowers users to select and compare multiple cardiac phases side-by-side, enabling confident, phase-specific stenosis reporting
- CAD-RADS 2.0 functionality for clear communication of results in a standardized manner
- Finding management in a single view to support determination of disease severity and communication of results
- Interactive editing tools to ensure diagnostic accuracy and confidence
- Automatic multi-batch execution for coronary results
- Determine the presence, extent, and characteristics of coronary plaques
- Perform cross-sectional measurements along the coronaries and automatically calculate both regional and global plaque volume
- Color-coded visualization of plaque content (e.g., calcified and non-calcified) on vessel
- Support for Philips spectral CT analysis with features like monoenergetic keV slider and spectral result generation



CT Functional Analysis

✓ Radiology
✓ Cardiology

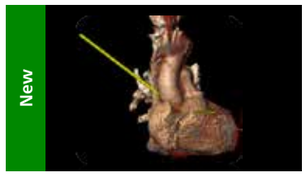
The **CT Functional Analysis application** supports users with assessment of LV, RV and atrial function using multi-slice, multi-phasic gated cardiac CT angiography studies. Analysis calculations include standard cardiac parameters such as EF, SV, CO, LV and RV mass, regurgitation volume and fraction index, RV/LV Early and Late filling volumes, and Early/Late LV filling ratio. The application enables automatic segmentation of the heart chambers and the myocardium, and selection of ED and ES phases.

Cardiovascular Suite Applications

CT PCI Planning Module

✓ Cardiology
✓ Surgery

The **CT PCI planning module** is available through a license purchase within CT Coronary Analysis; It provides the workflow and capabilities needed to assist in preparation of cardiac interventions (e.g percutaneous coronary interventions), based on coronary CT angiography. The module enables the review of the findings from the diagnostic reading, captured measurements such as vessel length and diameter, cross sectional inspection and capturing of C-arm angles



3mensio[1][2] Structural Heart

✓ Cardiology
✓ Surgery

3mensio Structural Heart is a solution developed for interventional cardiologist to enable them to plan percutaneous procedures.
The following workflows are available:

Aortic Valve
3mensio Aortic Valve allows for a pre-plan aortic valve replacement procedures (TAVR/TAVI). The workflow consists of several modules for the assessment and sizing of the aortic root and approach route assessment. It enables assessment for each patient if the transfemoral, trans subclavian, transapical or direct aortic approach is most suitable. The software has a workflow assistant which acts as a guide through the software.

Mitral Valve
The Mitral Valve solutions enables planning for the procedures of replacing the native valve (TMVR) or repairing the native valve (TMVr). The mitral annulus is oriented with a single click, and an assisted trace of the mitral annulus is performed to understand its 3D shape and dimensions. Additional features are specifically developed for planning replacement or repair. Relationships with surrounding structures, such as the Aortic Valve and Coronary Vessels, can be assessed. A comparison between the ED and ES phases is possible, and the approach route can be evaluated using either the Transseptal or Direct Access approach module.

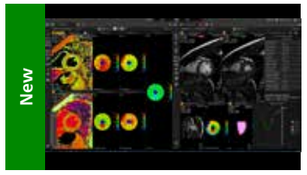
Pulmonary Valve
Pulmonary Valve is a dedicated workflow solution to plan Percutaneous Pulmonary Valve Implantation (PPVI). The automatic segmentation gives an overview of the patient's anatomy. Different features enable the assessment of the surrounding structures and the planning of a stent and valve.

Tricuspid Valve
The Tricuspid workflow enables to pre-plan percutaneous Transcatheter Tricuspid Valve repair or replacement. Different modules provide information on the Tricuspid Valve and the surrounding structures and the different approach routes that are available to access the valve.

Left Atrial Appendage (LAA)
The LAA workflow can be used to pre-plan for Left Atrial Appendage Occlusions (LAAO) on MSCT. The automatic generated 3D segmentation of the heart gives a view of the LAA, left atrium and surrounding structures in 3D. The LAA ostium and landing zone can be annotated and accurately measured. The Septal Crossing workflow provides insight in the relationship between the LAA and the intra-atrial septum and can be used for the planning of the septal puncture point.

(1) Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.

(2) This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.



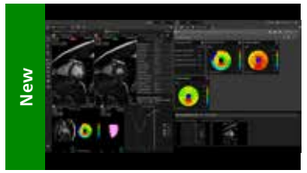
AV Cardiac MR - Cardiac MR Viewing and Analysis

✓ Cardiology

The **Cardiac MR** provides a consolidated environment for cardiac MR interpretation. Designed to minimize manual effort and enhance diagnostic efficiency, it supports clinicians throughout the reading process. It allows side-by-side review of single, multiple or all available cardiac series (including priors) in a default or in user-defined viewing protocols. Series are automatically linked with respect to DICOM geometry, zoom/pan, time and position link for qualitative assessment.

With AV Cardiac MR, users benefit from Philips' solution offering a broad range of MR applications within a framework of smart, automated, and guided workflows.

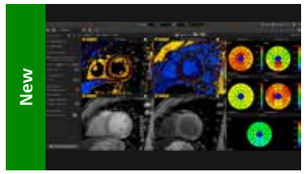
Key features:
- Reading experience with a user-focused design and customizable workflow creation allowing users to tailor their reading approach
- Automatic contouring tools for consistent and rapid segmentation
- Interactive editing tools to facilitate diagnostic accuracy and confidence



Detailed quantification of cardiac function
Functional analysis allows volumetric analysis of both the left and right ventricles based on short axis or axial acquisition.
The application provides automatic, semi-automatic and manual tools for segmentation. Users can choose to apply automatic papillary muscles extraction if desired. The application automatically calculates cardiac functional parameters such as: volumetric parameters, wall motion, wall thickness and thickening that can be presented in tables or in standard AHA 17 segments polar maps. The results tables can be configured by the user (including normal values), and values may be indexed by Body Surface Area (BSA). Results and screen captures can be saved and exported by the user.

MR Late Gadolinium enhancement (Spatial Enhancement) enables review, segmentation and quantification of T1w multi-slice, single-phase short-axis Late Gadolinium enhancement (LGE) MR image acquisitions. The application provides the user with multiple segmentation options through intensity thresholding for the quantification of enhanced tissue. Quantification is performed by intensity thresholding using one of user selected methods:
- Full Width Half Max (FWHM), threshold derived from the histogram of reference, segment or area.
- The calculated threshold can manually change. The user can report on enhanced area and mass, enhanced percentage, 'no reflow' volume & mass, binary enhanced volume percentage, LV enhanced volume percentage and transmurality index. Results and screen captures can be saved and exported by the user.

Cardiovascular Suite Applications



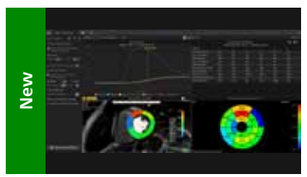
Assess myocardial tissue characteristics

✓ Cardiology

The Cardiac MR Quantitative Mapping application allows the user to verify the acquisitions and parametric maps created at the scanner and/or, recompute the maps after motion correction between the acquired images or by excluding images with artifacts from processing. The application allows users to load and review MR T1, T2 and T2* acquisitions and parametric maps obtained from the scanner.
For the T1 mapping, the application offers processing of MOLLI, shMOLLI and SASHA data.

The application offers local and regional manual segmentation of blood and myocardium, determines Extracellular Volume Fraction (ECV) by calculating the hematocrit-normalized relative change in relaxation rate between native and enhanced T1 values.

The application generates the calculated pixel map as output in color in DICOM and non-DICOM format. Numerical values, polar plots for regional segmentation, and screenshots can be captured, saved and exported.



Support assessing temporal enhancements of the myocardium

✓ Cardiology

Cardiac MR (Perfusion Analysis MR Cardiac Temporal Enhancement) enables users with review and analysis of individual rest or stress acquisitions and/or rest-stress comparison of multi-slice dynamic cardiac MR acquisitions in one application. The application supports semi-quantitative assessment of dynamic image data to analyze signal intensity changes over time. Results are presented using either the AHA standardized or adapted bull's eye views.

The user has the option to apply rigid or affine image registration to correct frame-to-frame heart displacements across dynamics caused by breathing. Numerical values, bull's eye in regional segmentation and screen shots can be saved, captured and exported.

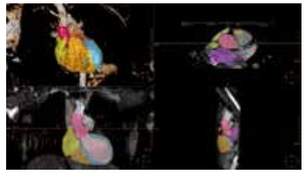
Visualizing and quantifying blood flow dynamics

✓ Vascular
✓ Cardiology

MR QFlow supports visualization and quantification of blood flow dynamics by assisting in review of MR phase-contrast data, on vascular ROIs segmented manually, or semi-automatically.

The application provides quantification of the following parameters: stroke volume, regurgitant fraction, forward and backward flow volumes, flux, stroke distance, mean velocity, max./min. velocity, peak velocity, vessel area, peak pressure gradient, E/A ratio and deceleration time.

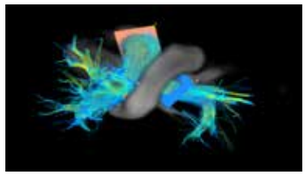
Results and screen captures can be saved and exported by the user.



Detailed 3D visualization of the segmented heart

✓ Cardiology

MR Cardiac Whole Heart allows 3D visualization of the heart and vessels anatomy on T1 3D or MRA acquisition. The user has the ability to use manual editing tools as well semi-automatic tools based on seed and mask-based segmentation as well as full automatic model-based heart segmentation. Any segmentation can be manually corrected with editing tools until the user has reached the defined image details. Any 3D visualization can be saved with a batch tool or the user can create and export the segmented objects in VTK or STL format.



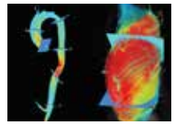
Visualization and quantification of blood flow

✓ Cardiology

MR Caas[1][2][3][4] 4D Flow is a post-processing software solution that enables users to generate 3D volume reconstructions for MR datasets, to visualize and evaluate blood flow in cardiovascular structures, including heart valves, chambers, and vessels, based on cardiovascular MR 4D Flow imaging.

It consists of 2 modules (Heart and Artery), with workflows that guide you to reproducible results in a few clicks, to support your clinical decision making and planning.

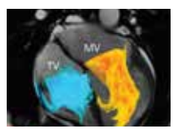
[1] Caas is a trademark of Pie Medical Inc.
[2] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
[3] MR Caas can be launched from AVW.
[4] Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.



4D Flow - Artery[1]

Enables to construct a 3D volume of a vascular structure. The software provides multiple options for visualization of blood flow, which can be visualized by streamlines, time-resolved 3D pathlines, or as color coded vectors.

[1] These functionalities may not be available in all territories. Please contact your Philips representative for more details.

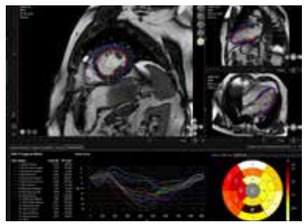


4D Flow - Heart[1]

Used to visualize and measure flow in the heart chambers and over all four heart valves during the heart cycle. The blood flow can be visualized by streamlines over the heart valves. Automated tracking of a valve plane allows multi-valvular flow for the same cardiac cycle[2]. Speed overlays are available based on the 4D flow data. Results include forward and backward flow and regurgitation fraction.

[1] These functionalities may not be available in all territories. Please contact your Philips representative for more details.
[2] Automated Cardiac Valve Tracking for Flow Quantification with Four-dimensional Flow MRI. V Kamphuis et al, Radiology, 2018.

Cardiovascular Suite Applications



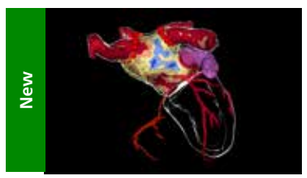
Quantify myocardial strain[1]

✓ Cardiology

MR Caas[1] Strain[2][3][4][5] quantifies myocardial strain in the left ventricle using short- and long axis SSFP images. Strain is used to describe the myocardium deformation- such as shortening, thickening and lengthening- during the cardiac cycle.

MR Caas Strain provides global strain parameters such as global longitudinal strain (GLS), global circumferential strain (GCS), and global radial strain (GRS). MR Caas Strain can assist in the diagnosis and monitoring of patients with Dilated cardiomyopathy (DCM), Hypertrophic cardiomyopathy (HCM), or Restrictive cardiomyopathy (RCM), and in patients with Valvular heart disease.

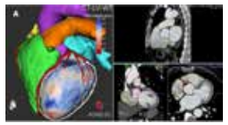
[1] Caas is a trademark of Pie Medical Imaging B.V.
[2] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability..
[3] Currently not available for sale in the USA. Future availability cannot be ensured.
[4] MR Caas can be launched from AVW.
[5] Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.



ADAS 3D

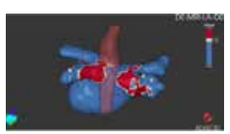
ADAS 3D[1] is a powerful software designed for electrophysiologists to plan procedures in patients with myocardial scar resulting from ischemic or non-ischemic heart disease. It processes pre-procedural MRI and CT images to generate advanced imaging information within minutes. The software is composed of two modules:

[1] ADAS is a trademark of Adas3D Medical SL



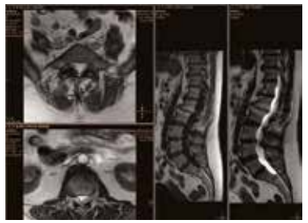
ADAS 3D LV is designed to assess the fibrotic substrate and anatomical features of the left ventricle using MRI and/or CT data, supporting pre- and peri-procedural decision-making in the treatment of ventricular tachycardia.[1] From MRI analysis, the module displays fibrosis transmurality using a layer-based myocardium representation, provides a visualization and quantification of fibrosis, automatically analyzes the 3D structure of LV scar, and detects 3D corridors of border zone tissue.[2] From CT analysis, it evaluates left ventricle wall thickness, highlighting areas of thinning, and allows for extraction of 3D anatomical structures, including, but not limited to, coronary arteries, aorta, right ventricle, pulmonary arteries, and adipose tissue. Both MRI and CT allow the computation of isodistance maps to assess the proximity of the epicardium to surrounding structures. ADAS 3D can automatically combine both MRI and CT images.

[1] The clinical significance of using the software to identify arrhythmia substrates for the treatment of cardiac arrhythmias (e.g., ventricular tachycardia) or risk stratification has not been established.
[2] The intermediate signal intensity 3D Corridor detection tool is not intended for clinical patient management and its use has not been validated clinically.



ADAS 3D LA enables understanding of the fibrotic substrate and the anatomical features of the left atrium to help pre- and peri-procedural clinical decision-making. From MRI, it offers 3D anatomy of the LA, map of the areas of fibrotic susbtrate in the LA wall, identifies gaps in previously created lesions, and extracts adjacent structures such as the esophagus and aortic root. From CT analysis quantifies and visualizes LA wall thickness and measures distances from the LA epicardium to other 3D anatomical structures, and allows for the extraction of anatomical structures, such as adipose tissue, coronary sinus, coronary sinus, esophagus, etc.

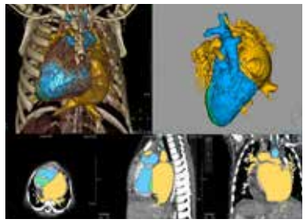
Multimodality (MM) - clinical applications



Initial viewing platform for advanced analysis needs

✓ General

Multimodality Viewer supports study review, side-by-side comparison, series arrangement as well as 2D and 3D manipulation of MR, CT, PET, NM, US, DX, CR, RF and XA images. It offers a set of tools for basic measurements, stitching multi-station data and generation of new DICOM series/objects for communication purposes. The viewer supports multiple image rendering modes and geometries as well as fusion capabilities of two series including registration options. The application allows creation and saving of results/processed images in standard DICOM and non-DICOM formats, and supports sharing of key images to Film and Report of all supported modalities. The viewer also supports the generation of MR DICOM series in the form of a dedicated MPR series derived from the 3D T1 acquisition, fused with objects like fiber, SPM (fMRI) and/or segmented structure. A unique patient-centric workflow facilitates communication between the Advanced Visualization Workspace and Philips Image Guided Therapy systems, to automatically launch relevant advanced analysis data before intervention.



Streamline 3D modeling workflow

✓ General

3D Modeling allows the user to view volumetric images of anatomical structures, perform segmentation, edit and combine segmented elements (tissues) into a 3D model. The user may determine the information related to the exported elements of the 3D model such as smoothness and output mesh size. The application allows to create batches for export in standard industry formats such as STL, and/or to render the mesh surface file in a 3D PDF format.

Studies of CT & MR can be used to create a single 3D model of the same patient. The application provides tools that allow the user to align between the volumes of interest in the images. 3D Modeling batch files can be exported in standard formats such as STL, with the option of generating a 3D PDF as an additional means of sharing results with 3D printing or other services[1]. Contours can also be exported as RT Structures.

[1] 3D Models are not intended for diagnostic use.

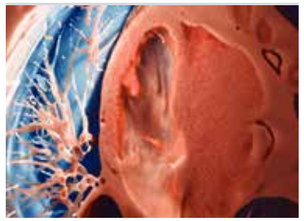
Access to advanced DICOM viewing anywhere[1]

✓ General

Advanced Visualization Workspace Zero Footprint Viewer provides a clinically rich viewing environment, like prior comparison with automatic registration, MPR and Volume modes and Key images workflow. The HTML-based viewer allows access to imaging data stored and created on Advanced Visualization Workspace 16 from anywhere. Built-in peer-to-peer real time collaboration capabilities supports communication and consultation between physicians. Supported by a dedicated HW, this viewer can scale-up and support up to 50 concurrent users.

[1] Zero Footprint Viewer is not intended for diagnostic image review. Please observe the requirements that apply to this feature on the AVW16 Technical Datasheet and contact your Philips representative for more details.

Multimodality (MM) - clinical applications

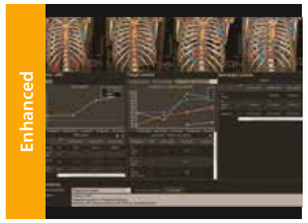


Enhance the way you visualize 3D images

✓ General

The Photo Realistic Volume Rendering (PRVR)[1] engine is a post-processing technique used in 3D visualization of medical images, aimed to create realistic 3D images. It has an artificial light source which gives the operator the ability to move it anywhere within the 3D volume image and manipulate light and shadow on anatomical structures for better understanding of depth and spatial relation between key anatomical structures including an advanced endo viewing mode. This technique helps to make the image more "lifelike" than traditional image-rendering methods, utilizing more than 20 visualization protocols optimized for different anatomies from cardiac and vascular to pulmonary and MSK. It can also be used to leverage the educational and communication methods of 3D imaging within the enterprise. This technique is integrated on the main general and cardiac CT viewers, offering all the interactive capabilities of traditional VR, such as 3D/4D batch, clipping planes etc. Leveraging an optimized GPU, there is no compromise on interactive performance.

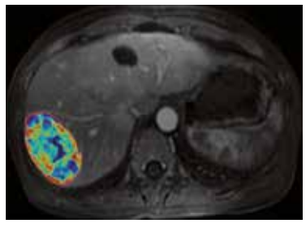
[1] Not intended for diagnostic use



Streamline workflow for analysis and follow-up of oncology patients

✓ Oncology

Multimodality Tumor Tracking is a post processing software used to display, process, analyze and quantify anatomical and functional images, for CT, MR, PET/CT, SPECT/CT and Dual Energy CT at one or multiple time points. The application offers enhanced semi-automatic volumetric segmentation, as well as selectable oncology response criteria including standards such as RECIST 1.0, RECIST 1.1, WHO, CHOI, PERCIST, irRC and mRECIST. The application also supports PET SUV analysis including glucose-corrected SUV. Findings can be shared with other Advanced Visualization Workspace applications such as CT Liver Analysis and AV Viewer or exported in different formats including RT Structures.

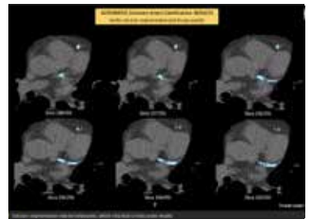


Semi-automatic tumor quantification

✓ Oncology

Multimodality Tumor Tracking supports the creation of Quantitative EASL (qEASL) maps used to measure segmented volumes of interest in heterogeneous lesions. This semi-automated 3D (Volumetric) tumor response assessment tool, based on EASL (European Association for the Study of the Liver) criteria incorporates functional information from both CT and MR contrast enhanced scans. Data is presented as a color map overlaid on the scans to show regional tumor enhancement heterogeneity. The color regions of the segmented lesions are where there is more enhancement than the predefined reference region.

CT - clinical applications

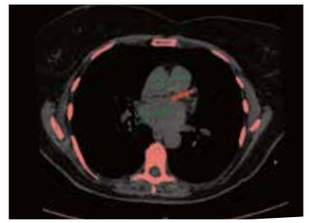


CT Calcium Automated Analysis

✓ Cardiology

CT Calcium Automated Analysis[1] application is used to assist physicians in reporting incidental findings of coronary artery calcium. The application identifies calcium in the coronary arteries on non-gated, non-contrast adult chest CT scans. The application generates results that can be sent directly to any configured device (e.g. PACS) and include the degree of coronary calcification (none, mild, moderate or severe), key images of findings and patient management recommendations according to the clinical guidelines.

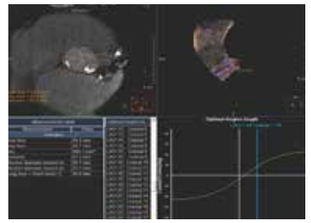
[1] Not available in the USA. Future availability cannot be ensured.



One-click 3D calcium segmentation

✓ Cardiology
✓ Surgery

CT Calcium Scoring features a one-click 3D segmentation and quantification for coronary arteries calcifications including mass, Agatston, and volume scores. Calcium scoring is achieved by performing automatic calculations on CT HU values in user-defined ROIs. The application supports ECG-gated and non ECG-gated images in DICOM format from Philips and other vendors (mass score can only be calculated for Philips CT scanners). The application incorporates parameters from the MESA (Multi Ethnic Study of Atherosclerosis) database.



CT imaging in TAVI to advance patient care

✓ Cardiology

CT TAVI Planning application provides 2D and 3D visualization as well as automated measurements designed to assist in proper TAVI-device sizing, on contrast-enhanced, prospectively ECG-gated axial or retrospectively gated helical CT images. These include area and diameter calculations for the aortic annulus, LVOT, sinotubular junction, sinus of valsalva and ascending aorta planes, as well as distance to coronary ostia from the annulus plane. The application provides 3D segmentation and visualization of aortic valve calcifications. The application also provides tools such as inspection of minimal diameter, calcifications and vessel tortuosity, to assess the peripheral vessels along the access route.

Assess lung nodules over time

✓ Oncology
✓ Pulmonary

CT Lung Nodule Assessment (LNA) is intended for the review and analysis of thoracic CT images, providing segmentation, quantification and characterization of physician-indicated lung nodules in a single study, or over the course of several thoracic studies. The application can be used in both diagnostic and screening evaluations, supporting Low Dose CT Lung Cancer Screening[1]. It features automatic lung and lobes segmentation as well as 2D and one-click 3D nodule segmentation. The application also supports Lung-RADS® 2022[2][3] categorization and Fleischner Society guidelines for incidental findings. It also features a Risk Calculator tool[4] based on patient and nodule characteristics for estimation of the probability that lung nodules detected on baseline screening low-dose CT scans are malignant (Brock Model). Deep-learning based pre-filled data including characteristics for each nodule in configurable presets, lobe location, nodule shape, nodule spiculation, endobronchial and Perifissural/Juxtapleural are suggested automatically by the application.

[1] The screening must be performed within the established inclusion criteria of programs/ protocols that have been approved and published by either a governmental body or professional medical society. Please refer to clinical literature, including the results of the National Lung Screening Trial (N Engl J Med 2011; 365:395-409) and subsequent literature, for further information.
[2] Lung-RADS® 2022 category calculation, based on the most up-to-date American College of Radiology (ACR) guidelines.
[3] Offered as separate commercial add-on.
[4] These functionalities may not be available in all markets. Please contact your Philips representative for more details.

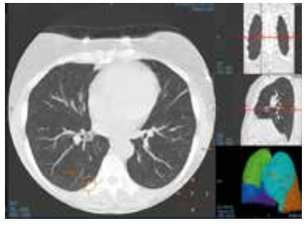
CT - clinical applications

Perform nodule search and detect actionable nodules

✓ Oncology
✓ Pulmonary

CT Lung Nodule analysis (LNA) ClearRead[1][2][3] CAD, powered by Riverain's ClearRead CT Vessel Suppress, offers deep-learning based detection capabilities for all nodules types including solid, part-solid and ground-glass. ClearRead CAD provides adjunctive information to aid the radiologist in the detection of pulmonary nodules during review of CT examinations of the chest on an asymptomatic population. It is not intended to be used without the original CT series. ClearRead CAD is optimized for Low dose CT and designed to work on scans with or without intravenous contrast, independent of scanner vendor and acquisition protocol. Pre-processed CAD detection results are also automatically available on PACS as a new series.

[1] ClearRead CT is a trademark of Riverain Technologies inc.
[2] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
[3] Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.

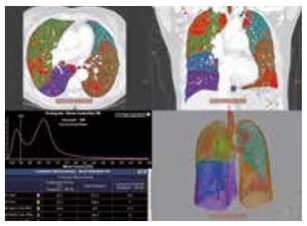


Automated computer aid for lung nodule detection

✓ Oncology
✓ Pulmonary

CT Lung Nodule CAD[1][2] offers an automated process that identifies and marks regions of interest based on image features associated with lung nodules. It is intended for use as a second reader after an initial interpretation of the diagnostic image has been performed. Volumetric segmentation detects nodules based on size, shape, density, and anatomical context. The application features one-click display of the findings.

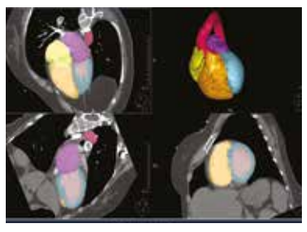
[1] CAD functionality not available for sale in the USA.
[2] For CAD functionality available for sale in the USA please refer to CT Lung Nodule analysis (LNA) ClearRead CAD option.



Quantify diffuse lung disease

✓ Pulmonary

CT Chronic Obstructive Pulmonary Disease (COPD) helps visualize and quantify the destructive process of diffuse lung disease (e.g. emphysema). The application provides a guided workflow featuring automatic lung, lobes and airway segmentation, localization and quantification of low attenuation areas, as well as dedicated tools for air trapping assessment. The application also provides automatic airway centerline calculation, airway tree segmentation, and enables the measurement of airway parameters such as lumen diameter and wall cross section. In addition, CT COPD features an endoluminal view as well as tools for qualitative and quantitative temporal comparison of up to four follow-up studies.

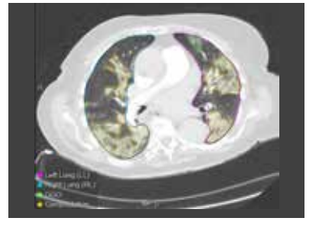


Assess suspected findings of pulmonary embolism

✓ Pulmonary

CT Pulmonary Artery Analysis (PAA) offers automatic and manual segmentation tools to assist in localization of suspected pulmonary embolism findings on segmental and sub-segmental contrast-opacified pulmonary arteries. A suite of tools helps visualize the lungs, review results, and report any pulmonary embolism findings. The application also allows the user to extract relevant cardiac measurements such as RV/LV ventricular ratio and chambers volumes. In addition, a CAD option[1] can be used as a second reader, after the initial diagnosis is completed by the radiologist.

[1] This functionality may not be available in all territories. Please contact your Philips representative for more details.

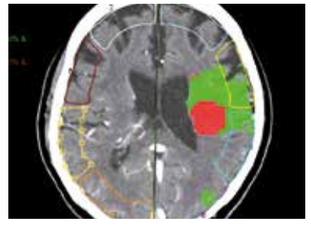


Manage suspected COVID-19 patients

✓ Pulmonary

CT Pulmo Auto Results[1] is an AI-based automated image analysis application that identifies several radiological findings in chest CT (e.g., consolidation and ground glass opacity) to support the management of adult patients with suspected or diagnosed COVID pneumonia.

[1] CT Pulmo Auto Results are not intended to replace the interpretation of the diagnostic image. This application is not available for sale in the USA and it is not available in all markets. Future availability cannot be ensured. Please contact your local Philips representative for more details.



Determine areas of reduced cerebral blood flow as compared to the contralateral hemisphere

✓ Neurology

CT Brain Perfusion generates qualitative and quantitative information about changes in image intensity over time. The application calculates and displays quantitative color maps of cerebral blood flow (CBF), cerebral blood volume (CBV), mean transit time (MTT), time-to-peak (TTP) and Tmax and provides summary maps which may help physicians in determining areas of reduced cerebral blood flow compared to the contralateral hemisphere. The default parameters and thresholds used to create the summary maps may also be edited by the user according to the physician's preference. Perfusion and summary maps can be generated automatically and sent to PACS for convenient reviewing. The application also offers automatic motion correction which can be further refined manually if needed. In addition, quality indicators ("traffic lights") point at possible acquisition faults that may affect the results. With studies of sufficient scan duration, permeability analysis can be used as an assessment of the contrast agent permeation of the blood-brain barrier. The application also includes pre-defined regions of interest templates for systematic and reproducible quantitative regional results.

CT Brain Perfusion offers ability to automatically generate and share perfusion and summary maps results via email[1] to a pre-defined list of recipients.

CT Brain Perfusion offers ability to:
1. Select how to calculate perfusion deficit in the summary maps
2. Select the resulted summary maps to include either TTP or Tmax
3. Select results presentation between mismatch ratio or index

[1] Content sent by mail is not for diagnostic use.

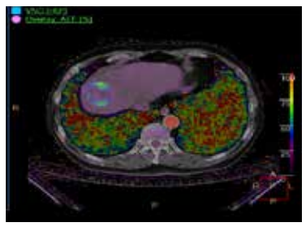
CT ASPECT Scoring

✓ Neurology
✓ Vascular

The CT ASPECT[1] Scoring application is used to assist the clinican in the assessment and characterization of brain tissue abnormalities using CT image data. The software automatically registers images, segments and analyzes ASPECTS (Alberta Stroke Program Early CT Score) Regions of Interest (ROIs). CT ASPECT Scoring application extracts image and morphological characteristics from the ROIs. This option provides the ability to automaticlly create ASPECT scoring results and send them to PACS, as well as provides access to an interactive application used to create or modify ASPECT scoring results.

[1] Not available in the USA. Please contact your Philips representative for more details.

CT - clinical applications



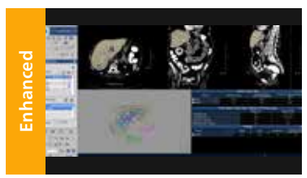
CT Multiphase Analysis

✓ General

The **CT Multiphase Analysis** [1] supports creation of maps from conventional or spectral multi-phase contrast-enhanced CT data. The application supports the following maps:

- Arterial Enhancement Fraction (AEF) - the ratio between the absolute enhancement of the tissue in the arterial phase and the portal venous phase
- Extra-Cellular Volume (ECV) - the absolute enhancement of the tissue in the equilibrium/late phase

[1] This application is only available in select geographies. Please contact local representatives for more details



Advanced liver segmentation

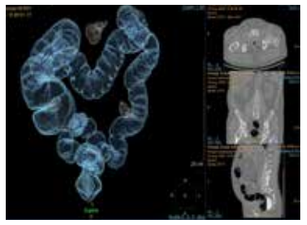
✓ Oncology
✓ Surgery

CT Liver Analysis automatically identifies, segments and quantifies the liver from the portal venous phase of a tri-phase liver scan, and automatically segments and classifies the hepatic and portal veins. The application features several semi-automatic segmentation methods to segment the liver (i.e. Couinaud) and provides tools to analyze and quantify the whole liver, liver segments and user-defined regions of interest. CT Liver Analysis also enables virtual hepatectomy, providing volumetric estimates of resected and residual liver segments. Results from CT Liver Analysis can be loaded into MMTT and vice-versa.

AVW16's Enhancements[1]:

- Automatically labels contrast phases (non-contrast, early arterial, late arterial, portal venous, late/delayed phases) for each of the loaded CT series.
- Automatically segments the liver and calculates the liver volume from CT scans (non-contrast, arterial phase, portal venous phase, and late/delayed phase).
- Automatically segments the spleen and calculates the spleen volume from CT scans (non-contrast, arterial phase, portal venous phase, and late/delayed phase).
- Automatically segments the hepatic arteries from the early arterial phase CT.
- Segmentation and measurements can be saved as batch to be sent to PACS

[1] These functionalities are not available for sale in USA.

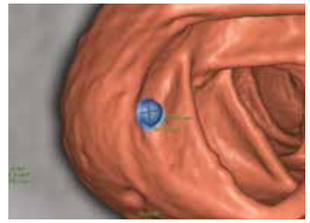


Reduce reading times in virtual colonoscopy

✓ Oncology
✓ Surgery

CT Virtual Colonoscopy enables 3D visualization of colon scans. The application automatically segments the air-filled colon and displays a calculated navigation path. The Perspective Filet view provides a synchronized display of the full colon surface wall with a single unidirectional view, reducing the need to review in both directions. The Electronic Cleansing function[1] can reduce the effect of residual liquids and fecal materials by "tagging" them via contrast-enhancement, allowing the user to automatically segment and subtract them. In addition, the CAD option can be used as a second reader and assist in the search for polyps.

[1] These functionalities may not be available in all territories. Please contact your Philips representative for more details. Please also note that there are two CAD options available, depending on geographical location.

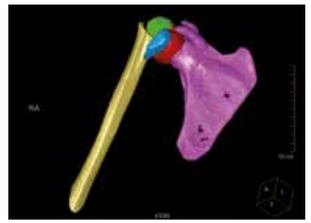


Automatically detect potential polyps in CT colonography exams

✓ Oncology

CT Virtual Colonoscopy Veralook CAD (add-on)[1][2][3] uses image processing and pattern recognition technology to identify colon polyps in CT colonography images, which can help streamline the reading process and improve workflow for radiologists while supporting accuracy, consistency and productivity in colon cancer screenings. Indicated for use as a second read, VeraLook is designed to enhance clinician accuracy and efficiency by improving detection of pedunculated, sessile, flat and fluid submerged colonic polyps.

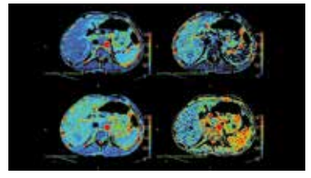
[1] VeraLook is a trademark of iCAD inc. and is available for sale only in the USA.
[2] Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.
[3] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.



One application for assessing selected anatomies

✓ Surgery
✓ Trauma
✓ MSK
✓ Vascular

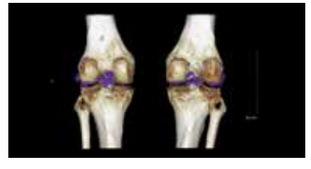
CT Acute Multi-Functional Review (AMFR) provides dedicated tools for findings detection, visualization and assessment of vessels, bones and spine anatomies, all within a single application. The application allows the user to select predefined layouts per anatomical area (head, chest, abdomen, spine and extremities). It supports 2D and 3D CT images and offers an automatic navigation path for calculation of the spinal cord as well as automatic detection and labeling of spine vertebrae and discs. The application segments bones using an interactive segmentation tool to create a workspace for virtual repositioning of individual bone segments. It also provides segmentation, editing and measurement tools for vascular analysis.



Quantifiable perfusion

✓ Oncology

CT Body Perfusion is intended for visualization, assessment and quantification of blood flow, blood volume, time to peak and peak enhancement using dynamic CT data. The application measures temporal changes in tissue density based on the linear relation with iodine concentration and is applicable to whole-organ or single-location liver, lung and kidney perfusion. The application also enables data analysis for optimization of injection timing as test prior to the clinical scan.

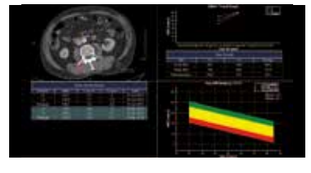


Visualize data from dual-energy acquisition

✓ General

CT Dual Energy Viewer provides a set of tools for registration, quantification, and visualization of dual-energy image data acquired from the Philips scanners' sequential dual-energy acquisition, as well as from other vendors[1] dual energy-acquisitions. This application is designed to assist in separation and analysis of different tissue materials based on their energy value.

[1] Please contact your local Philips representative for details about multivendor coverage.



Track degenerative and metabolic bone disease

✓ MSK
✓ Orthopedics

CT Bone Mineral Analysis (BMA) is designed to measure bone density at one or multiple time points. Using an internal reference method [2], the application helps to reduce reproducibility errors in multiple time point measurements and provides T- and Z- scores which help physicians assess the risk of osteoporosis. The user can compare patient's results to several reference populations.

[2] Muller DK, et al., Phantom-less QCT BMD system as screening tool for osteoporosis without additional radiation. Eur J Radiol. 2011; 79(3):375–81.

Planning for oral procedures

✓ Surgery

CT Dental Planning is designed to support the planning of oral procedures, and facilitate collaboration between radiologists and surgeons. The panoramic, cross sectional and volumetric images provide qualitative and quantitative information about the position of teeth and roots, existing implants, the mandibular canal and the density of the bone. The thickness of the bone and depth of the jaws can also be evaluated and measured.

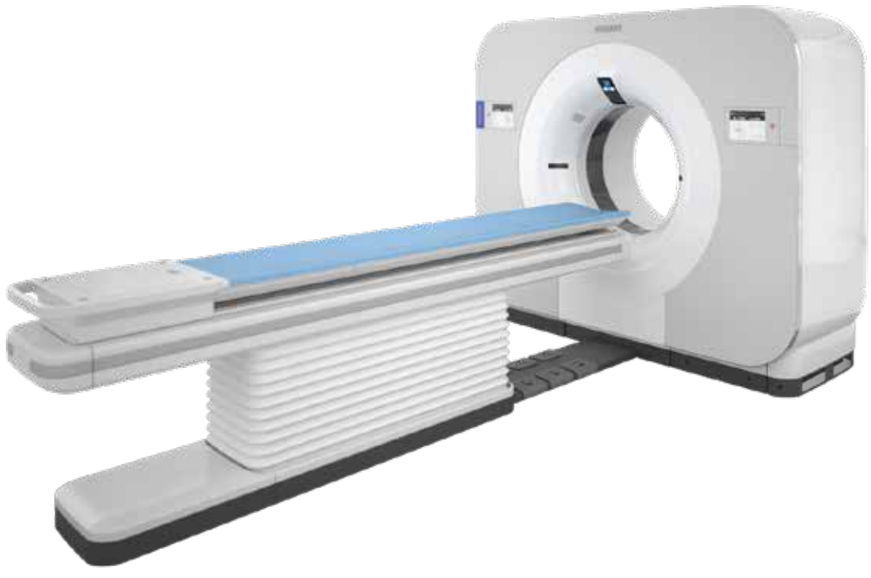
CT Spectral applications[1]

Philips Advanced Visualization Workspace suite of Spectral clinical applications has been optimized for the viewing and analysis of spectral data sets from Philips Spectral CT. These applications are spanning various clinical domains- from Oncology to Cardio-vascular, enabling spectral results anytime, virtually anywhere, enterprise-wide

Clinical and workflow benefits

- Improve reading of incidental findings, with retrospective spectral results always available
- Quantify the iodine concentration with iodine maps
- Visualize virtual non-contrast images to reduce the need for true non-contrast acquisitions
- Review Images at different energy levels (MonoE 40-200 keV):
  - Enhance contrast visualization within vascular structures, and brain gray-white matter, with low MonoE
  - Reduce impact of image artifacts and improve stents visualization with High MonoE
- AV spectral capabilities integrated within routine workflow of cardiac and oncology apps
- AV Spectral insights integrated into primary reading, via Spectral Magic Glass on PACS

[1] Spectral CT reconstruction provides a single DICOM entity containing sufficient information for retrospective analysis - Spectral Base Image (SBI). SBI contains the full range of spectral results with no need for additional reconstruction or post-processing. Spectral applications create different spectral results from SBI.

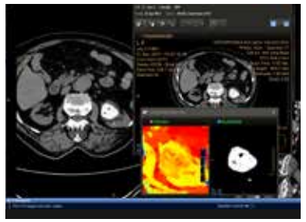


CT Spectral Viewer

- ✓ Oncology
- ✓ Cardiovascular
- ✓ Neurology

CT Spectral Viewer is optimized for analysis of spectral data sets from the Spectral CT scanners. CT Spectral Viewer is designed to enable spectral quantification through proprietary spectral tools, including the exclusive Spectral Magic Glass. This viewing environment enables switch across different spectral results through a viewport control and a set of viewing tools which are similar to the routine Advanced Visualization Workspace CT viewer. Additional spectral viewing capabilities include:

- Spectral volume quantification to perform quick sub-lesion segmentation and visualization of hypo-perfusion regions
- Anatomy aware presets- hanging protocol workflow, tailored to the viewed anatomy and user's preferences
- Automatic adaptive windowing for different keV levels



CT Spectral Light Magic Glass

- ✓ Oncology
- ✓ Neurology

The CT Spectral Light Magic Glass option enables the user to review spectral data in a range of CT applications that are not spectral-enhanced. The purpose of the CT Spectral Light Magic Glass option is to allow retrospective use of spectral data that was saved in a series of spectral base images (SBI). The fast launch of LMG allows review and identification of the most relevant results to be launched into the application for further analysis. The option is available from the following applications: Brain Perfusion, Body Perfusion, Liver Analysis, PAA, TAVI, Acute Multi-Functional Review, and Virtual Colonoscopy. Spectral Magic Glass can be launched only for CT images or images created on the Philips Spectral CT.

CT Spectral Magic Glass on PACS

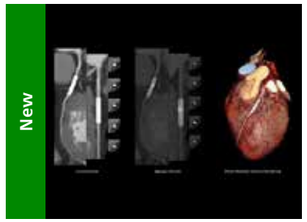
- ✓ Oncology
- ✓ Neurology

Philips Spectral CT is a family of scanners which offers CT Spectral Magic Glass on PACS, helping radiologists review and analyze multiple layers of spectral data at once, including on their PACS.

This functionality includes:

- Integrates into a health system's current PACS setup for certain PACS vendors
- Spectral results available during a routine reading, virtually anywhere, enterprise-wide
- Keyboard shortkeys for fast switching of visualized spectral results
- CT Spectral Magic Glass on PACS now supports Slab and 3D visualization
- On-demand simultaneous analysis of multiple spectral results for an ROI

CT Spectral - clinical applications



AV Cardiac CT Spectral Analysis[1]

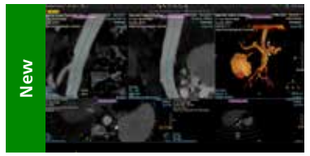
✓ Cardiology

The **AV Cardiac CT Spectral Analysis** license enables the use of the CT Coronary and Functional Analysis applications for the visualization of Philips spectral CT images (SBI) acquired on Philips scanners.

Features:

- Assess coronary anatomy and pathology on spectral images, including mono-energetic reconstructions
- Perform Plaque analysis based on Spectral data

[1] This is an optional licensed add-on (purchasable) for AV Cardiac CT.



Spectral Vascular Analysis[1]

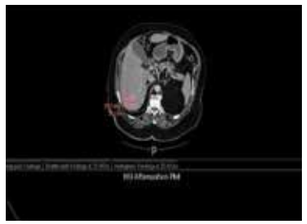
✓ Oncology

The **Spectral Vascular Analysis** license allows the user to utilize the CT Spectral maps and spectral tools during vascular analysis.

Key Benefits:

- Extract and edit vessel wall and lumen based on Spectral data
- Perform lesion analysis based on Spectral data
- Compare the extracted vessels using various Spectral results

[1] This is an optional licensed add-on (purchasable) for AV Vascular.



CT Spectral Tumor Tracking[1]

✓ Oncology

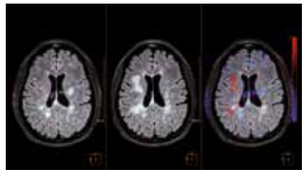
Assists in viewing and evaluating CT images acquired on the Philips Spectral CT scanners family for the inspection of tumors, on contrast enhanced, soft tissue oriented, and whole body scans. Supports lesion viewing and analysis based on different spectral data types such as iodine density maps or virtual non-contrast-enhanced images. Tissue segmentation and editing tools allow user-defined ROI and the application provides information on physical (length, width, volume) and composition properties (effective atomic number, attenuation, and HU) of the tumor. The application supports longitudinal viewing of cases taken from different examination times.

[1] Optional add in to MutiModality Tumor Tracking.

MR - clinical applications

MR-clinical applications

MR - clinical applications



Visualize subtle changes in brain images over time

✓ Neurology
✓ Oncology

MR Longitudinal Brain Analysis supports the visualization of brain images for the evaluation and monitoring of changes across multiple time points. The application performs automatic registration between studies and provides semi-automatic segmentation and editing tools for volumetric measurement of brain lesions. The Comparative Brain Imaging feature uses bias field-correction, intensity scaling, image registration and mathematical subtraction to provide color-coded images highlighting subtle brain changes over time.

The MR Longitudinal Brain Analysis supports the generation of FLAIR* series. The FLAIR* could aid the visualization of central vein sign in white matter lesions, which may help the diagnosis of multiple sclerosis [1].

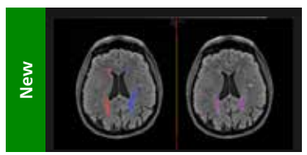
[1] Sati P et al. Nat Rev Neurol. 2016 ;12(12):714-722.

Automated brain image analysis

✓ Neurology

MR NeuroQuant[1][2][3] automatically segments and measures volumes of brain structures and compares these volumes to a normative database adjusted for age, gender and intracranial volume. The application also helps perform multi-time point evaluations to assess brain structure volume changes over time.

[1] NeuroQuant is a trademark of CorTechs Labs, Inc.
[2] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
[3] Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.



MR NeuroQuant MS[1][2][3]

✓ Neurology

Automated FLAIR Lesion Segmentation and Quantification for Multiple Sclerosis. Supports review of 2D or 3D FLAIR MRI by providing lesion segmentation, lesion count and volume information, and follow-up comparison of lesion changes over time. Outputs may include lesion distribution by region, brain volume measurements, summary tables, visual lesion overlays, and Fazekas score reporting.

[1] NeuroQuant is a trademark of CorTechs Labs, Inc.
[2] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
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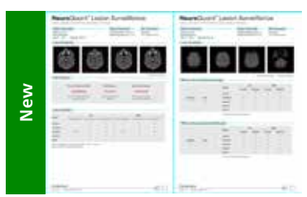

NeuroQuant Lesion Surveillance[1][2][3]

✓ Neurology

Brain Lesion Surveillance for Anti-Amyloid Treatment Follow-Up. Supports longitudinal review of FLAIR, T2* GRE, and SWI images by providing lesion visualization and quantitative information over time. The option enables comparison with baseline and prior timepoints, including lesion counts and maximum diameter measurements, to support follow-up workflows for patients receiving anti-amyloid therapies.

[1] NeuroQuant is a trademark of CorTechs Labs, Inc.
[2] This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
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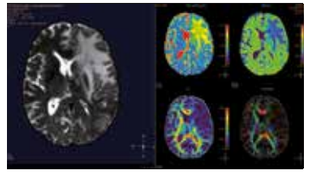
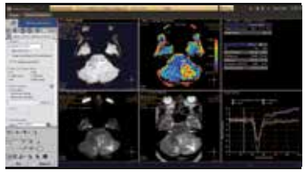


Analyze diffusion and anisotropic properties of tissue

✓ Neurology
✓ Oncology

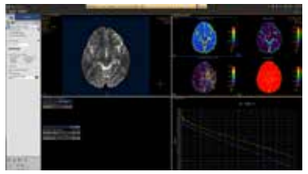
MR Diffusion is designed to analyze diffusion and anisotropic properties of tissue. The application evaluates DWI series to generate parametric maps such as ADC and eADC. For Diffusion Tensor Imaging data, additional parametric maps are generated, including fractional anisotropy, axial diffusivity or radial diffusivity. The user can make a sub-selection of the acquired b-values for analysis and select preferred color-coding for the parametric maps.



Reviewing brain tissue perfusion viability

✓ Neurology

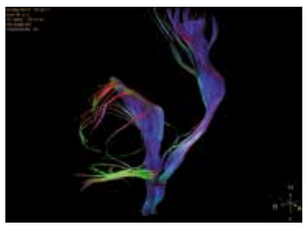
MR T2* Neuro Perfusion is designed to provide physicians with information for the evaluation of stroke, or assessment and follow-up of brain tumors. The application supports the analysis of T2* Perfusion studies to generate parametric data including TTP, MTT or Tmax. It offers several analysis techniques such as leakage correction, which allows the user to assess the time intensity curves where there is no proper recovery of the baseline after contrast passage, and manual arterial input function (AIF) which enables perfusion-diffusion mismatch if a Diffusion input dataset is available in addition to the Perfusion series. The package includes user-selected color coding of the functional data, and maps can be viewed and stored as overlays on anatomical reference images. The opacity of the overlay is user-defined.



Computed diffusion weighted images at a b-value of choice

✓ Neurology
✓ Oncology

MR Advanced Diffusion Analysis is a post processing software application used to view, process and analyze MRI Diffusion Weighted Images. The application calculates and displays cDWI at a chosen b-value (from 0 to 5,000 s/mm2) and provides advanced supportive analysis and visualization tools of diffusion MRI images and parametric maps. The application presents a default diffusion analysis model based on the available original DWI images as well as a selection of alternative models including monoexponential, biexponential, simplified IVIM, and kurtosis. A 'goodness of fit' value and fitted curve show the fitting quality of the selected model. The application also provides parametrics maps of perfusion fraction (f), pseudo diffusivity (D*), Diffusivity (D) and Kurtosis (K).

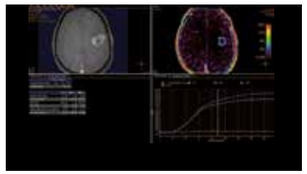


Visualize white matter connectivity in the brain

✓ Neurology

MR FiberTrak provides visualization and quantification of white matter structure in the brain and spinal tracts using task guidance for generating common or user-defined tracts. The guidance panel suggests which regions of interest and plane are common for identification of certain tracts such as the corticospinal tract. The results can be overlaid with other data like fMRI or anatomical series. The application allows evaluation of fiber tracts around tumors and lesions in combination with functional areas. It also supports DICOM-based output with merged anatomical tractography information through the Multimodality Viewer.

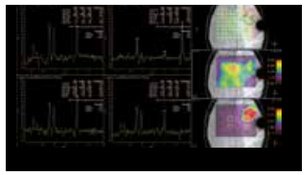
MR - clinical applications



Reviewing vascular leakage

- ✓ Oncology
- ✓ Neurology

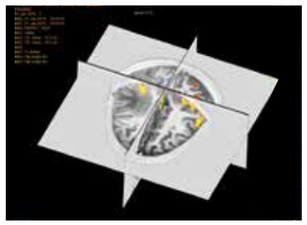
MR Permeability is designed to visualize T1 weighted DCE 3D datasets and assist in analyzing the tissue response. The application calculates parametric maps such as Ktrans, Kep, Ve and Vf. According to published literature, these parametric maps may provide additional information that can support the evaluation of tissue characteristics in oncology domain, for example in the assessment of brain or prostate cancer.



Review metabolite maps

- ✓ Neurology
- ✓ Oncology

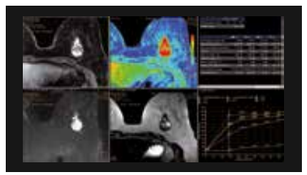
MR SpectroView is a task-guided application providing hydrogen single voxel spectra as well as metabolic and ratio maps. The application automatically identifies the anatomy to preselect appropriate metabolites or supports a user-defined combination of metabolites.



Brain activation analysis

- ✓ Neurology

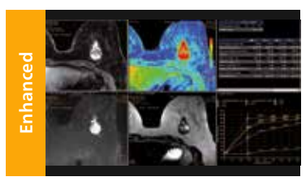
MR Brain Function Analysis helps identify and visualize functional regions of the brain, relying on local metabolic and hemodynamic changes that occur in activated brain areas. The tool applies a generalized linear regression model to analyze block paradigms, event-related paradigms, and resting state data. Paradigms can be user-defined or imported. The application supports the export of functional results through the Multimodality Viewer including DICOM-based images with co-registered anatomical and fMRI maps.



Evaluate time intensity curves

- ✓ Oncology

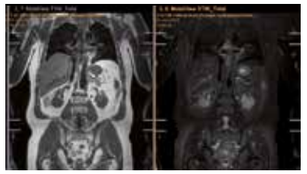
MR T1 Perfusion is designed to evaluate time intensity curves of a T1 signal enhancement series. The application produces measurements including relative enhancement, maximum enhancement, time to peak (TTP), and wash-in/wash-out rates. The package includes user-selected color-coding of parametric. The maps which can be viewed and stored as overlays on anatomical reference images. The opacity of the overlay is user-defined. The series can be referenced to any other series such as Diffusion data within the same study.



Perform basic calculations between two volumes

- ✓ Neurology
- ✓ Oncology

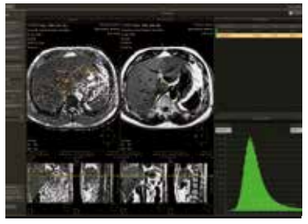
MR Image Algebra (previously known as MR Subtraction) enables basic calculations between two volumes, including addition, subtraction and ratio from within a single dynamic series.
The application allows the user to subtract pre-contrast from post-contrast series. Weighing factors can be applied to impact the calculation.



Automatic review of total body MR data

- ✓ Neurology
- ✓ Oncology

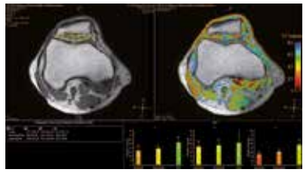
MR MobiView, an option within the Multimodality Viewer, automatically combines (“stitches”) images from multiple acquisitions of the same examination to create one overall volume. Key clinical cases are MRA run-offs, whole body metastases screening from eye-to-thighs, and total spine views to show the complete CNS. The resulting image series can be viewed, filmed, and exported using a DICOM compliant tool.



Automated MR liver assessment

- ✓ Radiology

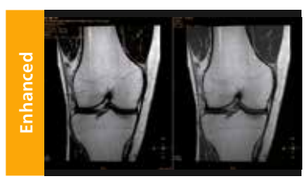
MR Liver Health offers a dedicated workflow to support the assessment of liver diseases from MRI biomarkers such as Fat Fraction (FF) or T2*/R2*. The application provides automatic segmentation of the whole liver on T1 weighted images. Thresholding on T2* and/or FF maps is available for quantification of liver tissue from the segmented whole liver. The application also features 3D visualization and parametric quantification of liver segments and user-defined regions of interest. Longitudinal assessment is available to compare MR parametric maps at different time points.



Visualize cartilage structures

- ✓ Orthopedics

MR Cartilage Assessment enables the visualization of cartilage structures integrated with color-coded T2 maps. Positioning of cartilage-shaped, layered regions of interest is used to assess variation of T2 values across the cartilage depth to determine the degradation of the cartilage.

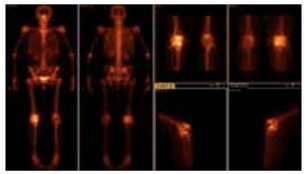


Optimizing image contrasts

- ✓ Orthopedics

MR Image Cumulation (former MR Echo Accumulation) is an image processing application enabling the calculation of a result image based on the accumulation of a selected dimension of an MRI series, such as echo or b-value. It enables preview, save and analysis on the calculated new series. The MR image Cumulation application supports any condition or anatomy requiring image enhancement or calculations before image analysis as part of the image management protocol.

NM - clinical applications

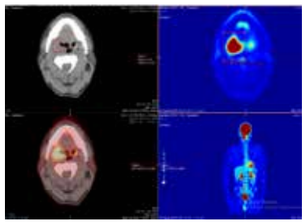


Streamline Molecular Imaging workflow

✓ Cardiology
✓ Oncology

NM Suite[1] implements clinical methods and provide for physicians a viewing, processing and analysis environment for planar data and usage of specific SPECT Nuclear Medicine data. NM Suite includes NM Planar and Jetpack applications, which are divided by anatomical regions: cardiac, Lung, endocrine/glands, renal, gastrointestinal/ esophagus, hepatobiliary/liver, whole body/bone/MIBG/lymph nodes and brain. These applications are integrated with viewing, image and curve Manipulation tools. The users can invoke these tools "when needed where needed". All applications support protocol and preference management that allows the users to configure their workflow and usability. The QA tools provide a set of tools to perform daily and periodic QA.

(1) A standalone software product which is launched from the Advanced Visualization Workspace (AVW) software.

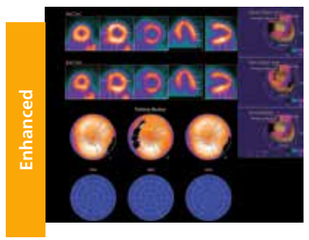


PET/CT and NM viewing and quantification

✓ Oncology
✓ Neurology
✓ General

NM Mirada Viewer[1][2][3] is designed to enhance productivity of PET/ CT and NM reading. It offers a solution for handling multiple studies requiring rigorous quantification of MV data. The Mirada Viewer includes configurable protocols[4] for reading, lesion tracking and treatment response, exportable tables and graphs, PET/CT, PET/MR, and PET/CT/MR registration.

(1) Mirada is a registered trademarks of Mirada Medical Ltd.
(2) Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.
(3) This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
(4) Not to be used as the sole basis for forming a diagnosis.

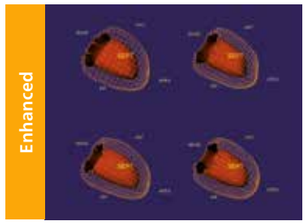


SPECT and PET cardiovascular quantification, review, and reporting

✓ Cardiology

Corridor4DM 2025 [1][2][3] is a application designed to process, review, report, and quantitatively analyze cardiac SPECT, PET, and hybrid-CT patient studies. The application provides tools to process, quantify, and display static, dynamic, gated planar, standard ungated ECT images, ECG gated ECT images, and dynamic ECT images. Physicians can assess cardiac health with the following workflows; Myocardial Perfusion and Function, Viability, MUGA, SPECT MUGA, Amyloidosis, Calcium Scoring, Myocardial Blood Flow,

(1) Corridor4DM is a registered trademark of Invia, LLC.
(2) Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.
(3) This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.



Advanced cardiac quantification

✓ Cardiology

NM Cedars-Sinai Cardiac Suite 2017[1][2][3] provides a cardiac quantification tools for gated, perfusion, and blood pool SPECT and quantitative PET. Cedars-Sinai Cardiac Suite 2017 application provides workflow for study interpretation with integration of perfusion and function.

- Automated RV contouring, quantification and analysis
- User customizable viewing layouts
- Enhanced Phase Analysis algorithm, Smart Launch, color pallet editor
- QGS, QPS, QBS analysis
- QPET analysis
- Support for $_{18}$F-Flurpiridaz (Flyrcado™) PET perfusion analysis and Quantitative SPECT

(1) Cedars-Sinai Cardiac Suite is a registered trademark of Cedars-Sinai.
(2) This solution and features may not be available for sale in all markets. Its features depend on customer-specific configuration and usage and may be updated periodically. Please contact your local Philips representative for market availability.
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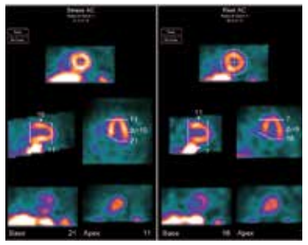

Cardiac analysis

✓ Cardiology

The **NM Emory Cardiac Toolbox (ECTb)**[1][2] provides advanced tools for cardiac SPECT and PET analysis including comparison of perfusion to viability data, display of 3D images with coronary overlays and gated 3D cine, normal limits for agent match/mismatch as well as optional phase analysis for wall motion and evaluation of thickening.

- Automated structured reporting dedicated to Nuclear Cardiology
- Transaxial reorientation
- Systolic and Diastolic Dyssynchrony analysis
- ECTb4-FlowToolV2 for PET Myocardial Blood Flow quantification

(1) Emory Cardiac Toolbox, ECTb, HeartFusion, and SyncTool are registered trademarks of Emory University. Manufactured/distributed by Syntermed, Inc.
(2) These functionalities may not be available in all territories. Please contact your Philips representative for more details.

Evaluate fused coronary anatomy

✓ Cardiology

NM Emory Cardiac Toolbox (ECTb) HeartFusion [1][2] tool offers fusion of a patient's coronary tree from cardiac CT angiography with MI perfusion images to correlate stenosis with perfusion defects and identify muscle mass at risk.

(1) Emory Cardiac Toolbox, ECTb, HeartFusion, and SyncTool are registered trademarks of Emory University. Manufactured/distributed by Syntermed, Inc.
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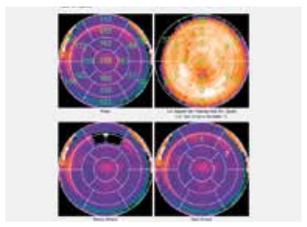

Assess cardiac mechanic dyssynchrony

✓ Cardiology

NM Emory Cardiac Toolbox (ECTb) SyncTool[1][2] provides an objective evaluation of left ventricular (LV) dyssynchrony using phase analysis. It also provides the cardiologist with additional prognostic information that can be obtained from 3D perfusion images, such as the presence and location of scar tissue. The SyncTool review screen includes phase polar maps, phase histograms, and a summary of systolic wall thickening analysis including peak phase and standard deviation of the phase distribution.

(1) Emory Cardiac Toolbox, ECTb, HeartFusion, and SyncTool are registered trademarks of Emory University. Manufactured/distributed by Syntermed, Inc.
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NM - clinical applications

Aiding the differential diagnosis of dementia

✓ Neurology

The **NM NeuroQ**[1][2][3] application is designed to help clinicians perform a quantitative analysis of FDG-PET brain scans. The application compares the regional brain activity in an individual scan to activity values derived from a group of asymptomatic control subjects. It analyzes the distribution of FDG-PET in individual scans, as well as the sometimes hard to detect differences between two PET scans on the same patient taken at different points in time.

- 3D surface projections display
- Export comparison values to an excel spreadsheet
- Helps to detect clinically meaningful abnormalities of regional brain metabolism
- NeuroQ brain SPECT analysis option (99mTc-HMPAO and 99mTc-ECD (Neurolite) normal databases)
- NeuroQ DatScan analysis: quantitative analysis for DaTscan SPECT for differential diagnosis between Parkinson's disease and essential tremor
- Centiloidsupport for amyloid exams

[1] NeuroQ is a trademark of Syntermed.
[2] Third-party product: Responsibility for the content on such products remains with the respective third party and may be updated from time to time.
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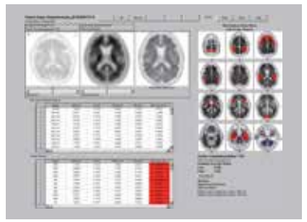


Assessing Amyloid plaque

✓ Neurology

The **NM NeuroQ**[1][2] **Amyloid** analysis tool is designed to help clinicians to assess the presence or absence of Amyloid plaque in the brain. Provides quantitative analysis tools for Brain PET scans using Amyvid, NeuraCeq and Vizamyl agents.
Supports quantitative analysis of amyloid uptake levels in the brain.

[1] NeuroQ is a trademark of Syntermed.
[2] These functionalities may not be available in all territories. Please contact your Philips representative for more details.

The **NM NeuroQ4**[1][2] **Amyloid** is designed to help clinicians assess the presence or absence of Amyloid plaque in the brain. Provides quantitative analysis tools for Brain PET scans using Amyvid, NeuraCeq and Vizamyl agents.

- Quantitative analysis of Amyloid uptake levels in the brain, including centiloid, SUVr, and Z-score
- Vizamyl™, NeuraCeq™, and Amyvid™ normal databases
- Serial imaging for assessing response to therapy

[1] NeuroQ is a trademark of Syntermed.
[2] These functionalities may not be available in all territories. Please contact your Philips representative for more details.

Advanced Visualization Workspace optimizes your workflow

Optimized Workflow Across Modalities

In radiology, time is often critical, and patients requiring advanced visualization frequently present with complex imaging studies. Philips Advanced Visualization Workspace enables the reading of data from multiple imaging modalities within a single environment, supporting varied workflows and compatibility with scanners from different vendors[1] across the department.

Results Generation And Sharing

Create a customized report for a multimodality workup that includes multiple patient findings, graphs, and tables. Take advantage of a variety of tools to capture, organize, store, and share information. Export clinical results directly into your enterprise's PACS or RIS using HL7 and DICOM. Save key image notes and tables directly to your reports, and combine multiple patient findings into a single patient-level report.

PACS Integration And Beyond

Review and complete entire cases in one session without leaving your chair. Advanced Visualization Workspace makes it possible to integrate via open interfaces both with Philips Image Management, other vendor's PACS systems[1] and with applications which can be connected to the Advanced Visualization Workspace platform.

(1) Requires integration with your PACS vendor which may vary between vendors.

Make The most Of Your Advanced Analysis With Real-time, Context-Based Training[1]

Turn to the virtual application guide for on-the-spot support. Our training materials include step-by-step instructions on how to use each application, instructional videos, and a wealth of other information. Every Advanced Visualization Workspace user can access these resources through the main screen or from within any application.

(1) The virtual application guide may not be available in all languages.

My Enterprise Monitoring

Through a secure internet connection, Philips experts proactively monitor your informatics solutions so they remain in proper working order. With MEMO, our technical team is able to analyze system performance data, watch for alerts and alarms, and determine appropriate action to support operation of systems.Customers can receive timely notifications and access our technical experts at any time.

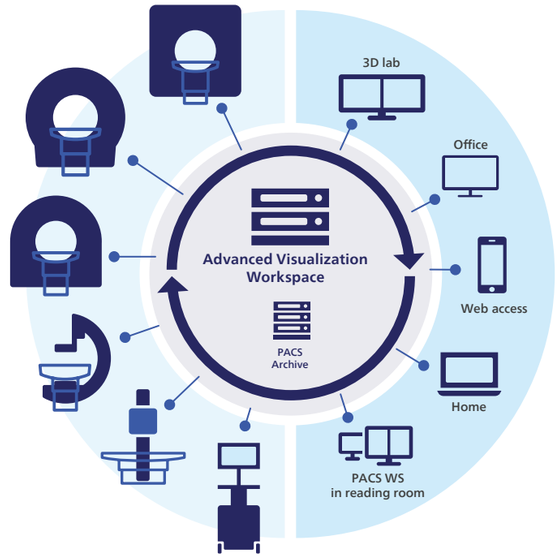
A unified diagnostic workspace for confident reading

By integrating advanced visualization into primary reading, Philips offers a unified diagnostic workspace enabling radiologists to enhance their diagnostic confidence without compromising on efficiency.

Combining powerful functionalities natively embedded into the workflow and Advanced Visualization Workspace's wide range of advanced applications conveniently accessible within the PACS client, Philips Image Management offers a new approach to Precision Diagnosis.

Simple right-click menu shortcuts, configurable according to the user's needs, provide access to in-depth analysis at your fingertips

One solution that grows as you grow



- Experience the benefits of addressing all your clinical needs on a single AV solution.
- Keeping pace with the evolution of clinical care and technology, Philips offers RightFit service contracts. In addition to keeping your system technically up to date, our packages include training courses on the latest applications, clinical support, tailored workflow consulting, and more to help you get the most out of your advanced analysis platform.
- With the enterprise scalability[1] of the Advanced Visualization Workspace's , you can access the power of advanced analysis anywhere within your organization while maintaining consistent applications and user preferences. Enterprise deployment can scale as your organization grows, helping drive collaboration across your network.

(1) Please contact your local representative for information on options regarding enterprise scalability and multi-site deployment.

For more info contact your local Philips representative or go to www.philips.com

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