

PHILIPS

Advanced Visualization
Workspace 15

Clinical datasheet



Intelligent, automated,
and connected analysis
in one comprehensive solution

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A single solution for the most complex patients

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- ⁽¹⁾ Not intended for diagnostic use
- ⁽²⁾ Zero Footprint Viewer is not intended for diagnostics. Please contact your Philips representative for more details.
- ⁽³⁾ Zero Footprint Viewer is not intended for diagnostics image review. The viewer is supported on OS X 10.10 and above, and Windows 10 and above using: Internet Chrome, Edge, Safari.
- ⁽⁴⁾ Not available for sale in the USA
- ⁽⁵⁾ ClearRead CT is a trademark of Riverain Technologies inc.
- ⁽⁶⁾ These functionalities may not be available in all territories. Please contact your Philips representative for more details.
- ⁽⁷⁾ CAD functionality is not available for sale in the US
- ⁽⁸⁾ CT Pulmo Auto Results are not intended to replace the interpretation of the diagnostic image.
- ⁽⁹⁾ Enhanced in version 12.1.6
- ⁽¹⁰⁾ A standalone software product which is launched from the Advanced Visualization Workspace (AVW) software.
- ⁽¹¹⁾ The application is not available in all markets. Please contact your local Philips representative for more details.
- ⁽¹²⁾ VeraLook is a trademark of iCAD inc. and is available for sale only in the US
- ⁽¹³⁾ New user experience workflow
- ⁽¹⁴⁾ Caas is a trademark of Pie Medical Inc.
- ⁽¹⁵⁾ NeuroQuant is a trademark of CorTechs Labs, Inc.
- ⁽¹⁶⁾ This functionality is not available in Advanced Visualization Workspace workstation configuration
- ⁽¹⁷⁾ Mirada is a registered trademark of Mirada inc. For details on Mirada latest version availability, please contact your Philips representative
- ⁽¹⁸⁾ Corridor4DM is a registered trademark of Invia, LLC.
- ⁽¹⁹⁾ Cedars-Sinai Cardiac Suite is a registered trademark of Cedars-Sinai.
- ⁽²⁰⁾ Emory Cardiac Toolbox, ECTb, HeartFusion, and SyncTool are registered trademarks of Emory University
- ⁽²¹⁾ NeuroQ is a trademark of Syntermed
- ⁽²²⁾ IntelliSpace Portal version 12 and higher clients no longer support the 2012 and 2013 versions of this application due to Microsoft® discontinued support of Windows 7. Contact the supplier for additional details and support. Customers must upgrade to the latest version of this application for proper function in Advanced Visualization Workspace 15.

A single solution for the most complex patients

With the Advanced Visualization Workspace by Philips, healthcare providers can now make informed clinical decisions across a wide range of clinical domains. Our cutting-edge technology empowers caregivers to improve patient outcomes by providing them with comprehensive information at their fingertips. Whether it's analyzing complex medical images, tracking disease progression, or evaluating treatment efficacy, the Advanced Visualization Workspace streamlines the clinical workflow and maximizes efficiency, enabling healthcare professionals to focus on what matters most: delivering high-quality care to their patients.

Advanced Visualization Workspace 15



Intelligent

Clinical insights designed to support workflow and diagnostic confidence



Automated

Reduce time to report with automated workflows and automatic results



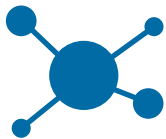
Connected

Scalable AV platform seamlessly integrated within your enterprise



Unmatched Clinical Depth with Philips Advanced Visualization Workspace 15

Experience unmatched clinical depth and comprehensive coverage with Philips Advanced Visualization Workspace 15. With over 70 applications, our platform features intelligent workflow automation, spanning various clinical domains such as oncology, cardiovascular, neurology, pulmonary and more. Get flexibility to access, analyze, and quantify patient imaging data in one unified view, all designed to streamline your clinical workflows and improve patient outcomes.



Multimodality Viewing Environment

Philips Advanced Visualization Workspace 15 offers a unified viewing environment that handles CT, MR, MI, US, XA, DSA, and DXR data from various vendors⁽¹⁾. This comprehensive platform provides a complete imaging view of the patient's condition, allowing you to make informed decisions. In addition, the platform includes a suite of advanced applications specifically designed for the Philips CT Spectral scanners, allowing for in-depth spectral information on demand.



One solution for today and tomorrow

Keep pace with the rapidly evolving landscape of advanced analysis by leveraging the latest clinical innovations available through Philips Advanced Visualization Workspace. Our updated Philips RightFit Service Agreements⁽²⁾ provide you with a comprehensive service solution that offers access to a continuous stream of clinical and IT innovations, such as on-demand clinical applications support 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 true value of Artificial Intelligence is when it embeds in-depth clinical insights directly into clinical workflows to inspire confident decisions about the care pathway, designed to yield the best outcomes. But, AI needs to be combined with a deep human understanding of the clinical and operational context.

Artificial Intelligence is a part of Philips Advanced Visualization offering. AI capabilities are implemented in applications such

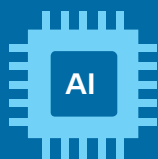
as lung nodule detection and characterization, automatic segmentation algorithm for lungs, CAD for colon polyps, cardiac MR ventricles segmentation for functional analysis, automated ASPECT Scoring results, and more.

Combining AI with the Philips Advanced Visualization Workspace empower physicians to make confident decisions.



Data

+



Artificial Intelligence

+



Deep clinical knowledge

Clinical focus areas

Cardiovascular

Diagnose and monitor cardiovascular diseases in a comprehensive manner. Quantitative tools such as 3D models and heat maps offer quick analysis designed to support diagnosis work.



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

Advanced Visualization Workspace 15 now offers a new user experience for the analysis of cardiac MR imaging, using a results-driven approach.

The coronary artery disease pathway is now enhanced, with standardized CAD-RADS reporting as part of the Cardiac Comprehensive Analysis application.

The Advanced Vessel Analysis application now includes Spectral CT analysis embedded as part of the new workflow introduced in previous releases.

Cardiovascular applications

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- CT Spectral Cardiac Viewer
- CT Spectral Magic Glass on PACS
- CT Cardiac Viewer
- Multimodality Advanced Vessel Analysis (AVA)
- CT Comprehensive Cardiac Analysis
- CT Cardiac Plaque Assessment
- CT Calcium Scoring
- CT Calcium Automated Analysis⁽²⁾⁽³⁾
- CT TAVI Planning
- CT Advanced Vessel Analysis Pre-procedural Planning
- CT Spectral Advanced Vessel Analysis⁽⁴⁾
- CT Spectral Comprehensive Cardiac Analysis
- CT multiphase analysis
- MR Cardiac⁽⁴⁾
- MR Cardiac Quantitative Mapping⁽⁴⁾
- MR Cardiac Temporal Enhancement (Perfusion)⁽⁴⁾
- MR QFlow⁽⁴⁾
- MR Cardiac Whole Heart
- MR Caas⁽³⁾⁽⁵⁾ 4D flow
- MR Caas⁽²⁾⁽³⁾⁽⁵⁾ Strain
- 3D Modeling⁽⁶⁾
- NM Cedar-Sinai Cardiac Suite 2017⁽³⁾⁽⁷⁾
- NM Corridor 4DM⁽⁸⁾ 2023
- NM Emory Cardiac Toolbox (ECTb) v4.2⁽³⁾⁽⁹⁾
- NM Emory Cardiac Toolbox (ECTb) HeartFusion⁽³⁾⁽⁹⁾
- NM Emory Cardiac Toolbox (ECTb) SyncTool⁽³⁾⁽⁹⁾
- NM Suite⁽¹⁰⁾

⁽¹⁾ The Photo Realistic Volume Rendering is not intended for diagnostic image review.

⁽²⁾ Not available for sale in the USA.

⁽³⁾ The application is not available in all markets.

Please contact your local Philips representative for more details.

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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. Advanced Visualization Workspace offers automated brain perfusion workflow that helps you determine areas of reduced cerebral blood flow compared to the contralateral hemisphere by conveniently reviewing results automatically available on PACS.

Advanced Visualization Workspace 15 now offers enhancement in the neurology domain:

- **The MR Longitudinal Brain Analysis supports the generation of FLAIR* series**
- **New CT ASPECT scoring^{(4) (5) (6)} application**
- **Enhanced Multimodality Advanced Vessel Analysis to support spectral data and enables comprehensive vascular analysis**

⁽¹⁾ The Photo Realistic Volume Rendering is not intended for diagnostic image review

⁽²⁾ New user experience workflow

⁽³⁾ Enhanced in version 12.1.6

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- CT Spectral Advanced Vessel Analysis⁽²⁾
- CT Brain Perfusion⁽³⁾
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- MR Longitudinal Brain Analysis
- MR Diffusion
- MR T2* Neuro Perfusion
- MR Advanced Diffusion Analysis
- MR FiberTrak
- MR Permeability
- MR SpectroView
- MR Brain Function Analysis
- MR Subtraction
- MR MobiView
- 3D Modeling⁽⁷⁾
- MR NeuroQuant^{(6) (9)}
- NM Mirada Viewer⁽¹⁰⁾
- NM NeuroQ Amyloid^{(8) (11)}
- NM NeuroQ 3.8^{(6) (11)}

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 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 supports clinical workflows at critical phases of patient care.

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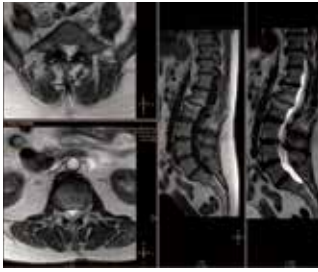
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Oncology applications

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- CT Multiphase Analysis
- CT Liver Analysis
- CT Virtual Colonoscopy
- CT Virtual Colonoscopy VeraLook CAD⁽⁷⁾
- CT Body Perfusion
- DynaCAD Breast^{(3) (8)}
- DynaCAD Prostate^{(3) (8)}
- MR Advanced Diffusion Analysis
- MR MobiView
- MR SpectroView
- MR Subtraction
- MR T1 Perfusion
- NM Suite⁽⁹⁾



Multimodality (MM) - clinical applications



Initial viewing platform for advanced analysis needs

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.⁽¹⁾

⁽¹⁾ This requires specific plug-in installation on the Advanced Visualization Workspace client which integrates with the Philips cath lab systems.

✓ General



Comprehensive vascular analysis

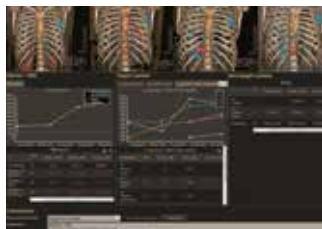
Multimodality Advanced Vessel Analysis is intended for visualization, assessment and quantification of vessels in CTA and MRA data with a unified workflow for both modalities. For CTA data, it provides automatic bone removal and vessel extractions, including centerlines, lumen contours and vessel contours. For both modalities, it provides tools for extracting and editing centerlines.

MM AVA offers inspection views for selected vessels centerlines and local analysis. It allows creating, capturing, and reviewing of basic user selected endovascular measurements (and calculations when applicable), as well as predefined measurements sets and measurements correlations. The AVA application is intended to be used for arteries analysis in: Head and Neck, Body, and Peripherals.

MM AVA now supports Philips spectral CT data analysis, including tools like monoenergetic keV slider, spectral result creation and more.

- ✓ Vascular
- ✓ Surgery
- ✓ Neurology
- ✓ Cardiology

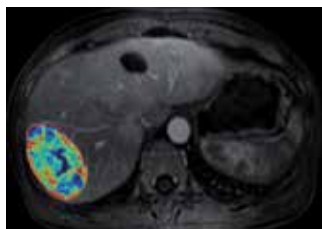
Multimodality (MM) - clinical applications



Streamline workflow for analysis and follow-up of oncology patients

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 CT Viewer or exported in different formats including RT Structures.

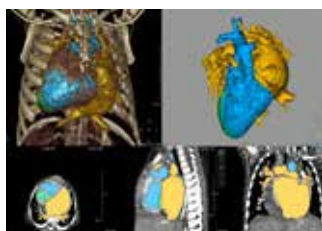
- ✓ Oncology
- ✓ Pulmonary



Semi-automatic tumor quantification

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 are 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.

- ✓ Oncology



Streamline 3D modeling workflow

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.

- ✓ General

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 easily 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) (2)}

Advanced Visualization Workspace Zero Footprint Viewer provides a clinically rich viewing environment, like quick prior comparison with automatic registration, MPR and Volume modes and Key images workflow. The HTML-based viewer allows access⁽²⁾ to imaging data stored and created on Advanced Visualization Workspace 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.

- ✓ General

The Zero Footprint Viewer now offers improved user interface to enhance the workflow.

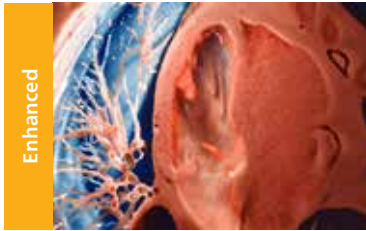
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CT-clinical applications

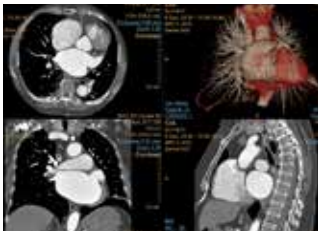


Enhance the way you visualize 3D images

✓ General

The **Photo Realistic Volume Rendering**⁽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 makes 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 seamlessly on the main general, cardiac and spectral 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, making the user experience seamless. Photo Realistic Volume Rendering now supports non-HU (spectral) images.

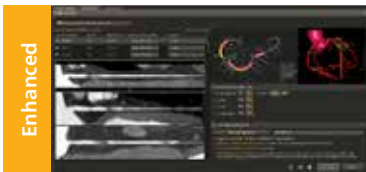
⁽¹⁾ The Photo Realistic Volume Rendering is not intended for diagnostic image review.



Quick cardiac visualization

✓ Cardiology

CT Cardiac 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. The viewer supports basic measurements as well as basic ventricular functional analysis based on “Area-Length” method to estimate end systolic volume (ESV), end diastolic volume (EDV), cardiac output (CO), and ejection fraction (EF).



Comprehensive cardiac analysis

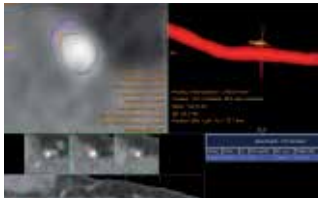
✓ Cardiology

CT Comprehensive Cardiac Analysis (CCA) is designed to assist the user in viewing, analyzing and quantifying dedicated Cardiac CT Angiograms, mainly for coronary arteries analysis on Coronaries CT Angiogram (CCTA) data. The application also offers cardiac function measurements and automatic extraction and visualization of the coronary tree, as well as automatic labeling of the coronary segments. The application uses an automatic 3D model-based whole-heart segmentation to enable cardiac function analysis. 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 user has the ability to edit and modify the segmentation and the derived parameters.

CT CCA now offers consolidated findings management module, with one-click stenosis findings displayed side-by-side. CAD-RADS reporting is now embedded in the workflow, supporting determination of disease severity and follow-up recommendations according to the guidelines. The new version promotes ease of use, with the multi-batch option, which enables saving curved and straightened MPR images of all selected coronaries to the PACS with a single click.



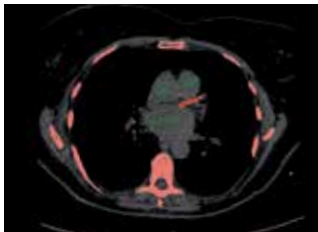
CT-clinical applications



Evaluate coronary plaque

✓ Cardiology

CT Cardiac Plaque Assessment enables cross-sectional measurements along the coronary arteries, and automatically calculates regional and global quantities of plaque volume. The tool provides automatic color-coded visualization of plaque content areas on vessel cross-sectional images.

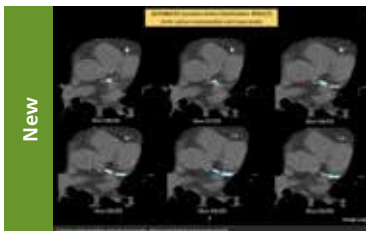


One-click 3D calcium segmentation

✓ Cardiology
✓ Surgery
✓ Pulmonary

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.



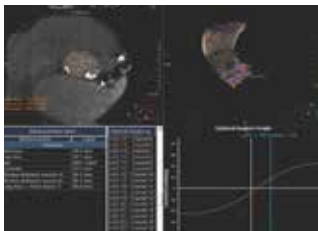
New

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 automatic 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 for sale in the USA.



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.



Quickly plan vascular access route for endovascular procedures and stent placement

✓ Vascular
✓ Surgery

Multimodality Advanced Vessel Analysis (AVA) Pre-procedural Planning⁽¹⁾ includes multiple preset and user-defined options to gain detailed numerical generating predefined stent and access route protocols. The application allows you to export customized results to external reporting systems.

⁽¹⁾ Optional add-on on top of Multimodality Advanced Vessel Analysis (MM AVA) application.

CT - clinical applications



Assess lung nodules over time

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 one-click 2D and 3D nodule segmentation. The application also supports LungRADS⁽³⁾ categorization, Fleischner Society guidelines for incidental findings⁽³⁾. It also features a Risk Calculator^{(2),(3)} tool based on patient and nodule characteristics for estimation of the probability that lung nodules detected on baseline screening low-dose CT scans are malignant. Deep-learning based pre-filled⁽³⁾ data including characteristics for each nodule in configurable presets, lobe location, nodule shape, nodule spiculation, endobronchial and Perifissural/Subpleural are provided automatically by the application.

- ✓ Oncology
- ✓ Pulmonary

⁽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⁾ These functionalities may not be available in all markets. Please contact your Philips representative for more details.

⁽³⁾ Offered as separate commercial add-on.



Automated computer aid for lung nodule detection

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.

- ✓ Oncology
- ✓ Pulmonary

⁽¹⁾ Philips CAD functionality not available for sale in the US.

⁽²⁾ For CAD functionality available for sale in the US please refer to CT Lung Nodule analysis (LNA) ClearRead CAD option.



Perform nodule search faster and detect previously missed actionable nodules

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, as well as in already diagnosed patients⁽⁴⁾. 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.

- ✓ Oncology
- ✓ Pulmonary

⁽¹⁾ ClearRead CT is a trademark of Riverain Technologies inc.

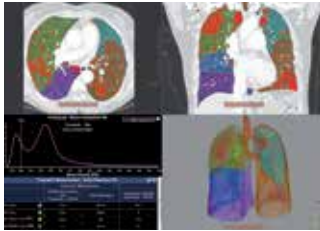
⁽²⁾ These functionalities may not be available in all markets. Please contact your Philips representative for more details.

⁽³⁾ Please note that there are two CAD options available for LNA application, depending on different territories.

⁽⁴⁾ Intended population for ClearRead CAD differs in different markets. Please contact your Philips representative for more details.



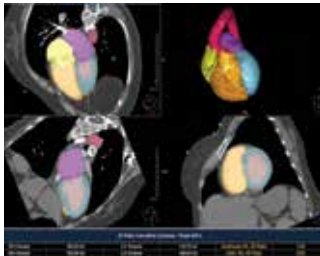
CT-clinical applications



Quantify diffuse lung disease

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.

✓ Pulmonary

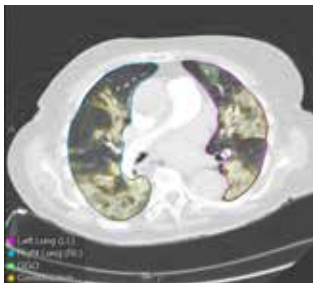


Assess suspected findings of pulmonary embolism

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.

✓ Pulmonary

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



Manage suspected COVID-19 patients

CT Pulmo Auto Results^{(1) (2) (3)} 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.

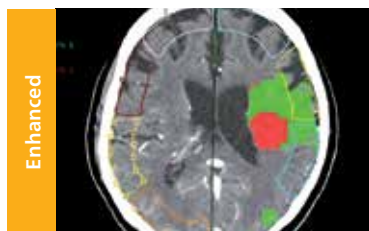
✓ Pulmonary

⁽¹⁾ CT Pulmo Auto Results is available in IntelliSpace Portal version 11.1.4 and higher.

⁽²⁾ Not for sale in the USA.

⁽³⁾ The functionality may not be available in all territories. Please contact your Philips representative for more details.

CT - clinical applications



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

✓ Neurology

CT Brain Perfusion⁽¹⁾ 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.

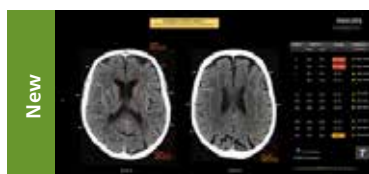
CT Brain Perfusion offers ability to automatically generate and share perfusion and summary maps results via email⁽²⁾ to a pre-defined list of recipients.

CT Brain Perfusion now offers ability to:

1. Select how to calculate perfusion deficit in the summary maps:
 - Mismatch Volume (European guidelines) [Penumbra – Core] Index [Penumbra/(Penumbra + Core)]
 - Mismatch Ratio (US guidelines) [Penumbra/Core].
2. Select the resulted summary maps to include either TTP or Tmax .
3. Select results presentation between mismatch ratio or index.

⁽¹⁾ Available as of version 12.1.6.

⁽²⁾ Content sent via email is not for diagnostic use.



CT ASPECT Scoring

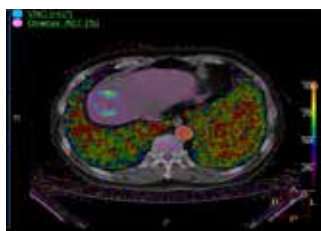
✓ Neurology

The CT ASPECT Scoring⁽¹⁾⁽²⁾⁽³⁾ application is used to assist the clinician 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 automatically 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 for sale in the USA.

⁽²⁾ A standalone software product which is launched from the Advanced Visualization Workspace (AVW) software.

⁽³⁾ This application may not be available in all territories. Please contact your Philips representative for more details.



CT Multiphase Analysis

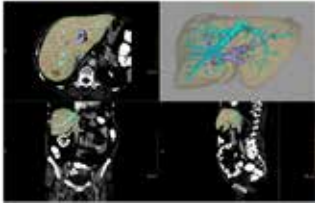
✓ General
✓ Cardiology
✓ Oncology

The CT Multiphase Analysis 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



CT-clinical applications

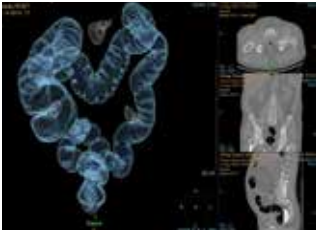


Advanced liver segmentation

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.

- ✓ Oncology
- ✓ Surgery



Reduce reading times in virtual colonoscopy

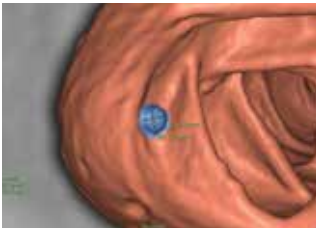
CT Virtual Colonoscopy enables 3D visualization of colon scans.

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⁽¹⁾ 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.

- ✓ Oncology
- ✓ Surgery



Automatically detect potential polyps in CT colonography exams

VC VeraLook CAD⁽¹⁾ 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. for sale only in the US.

- ✓ Oncology



One application for assessing selected anatomies

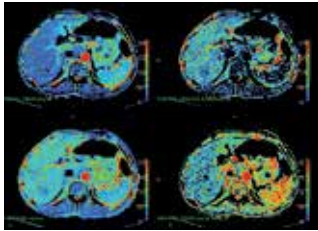
CT Acute Multi-Functional Review⁽¹⁾ (AMFR) provides dedicated tools for findings detection, visualization and assessment of vessels, bones and spine anatomies, all within a single application. The application allows the user to select predefined layouts per anatomical area (head, chest, abdomen, spine 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.

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

- ✓ Surgery
- ✓ Trauma
- ✓ MSK
- ✓ Vascular

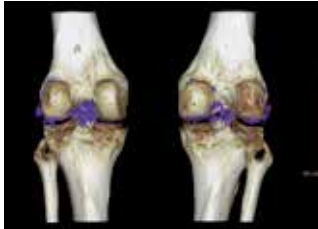
CT - clinical applications



Quantifiable perfusion

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.

✓ Oncology

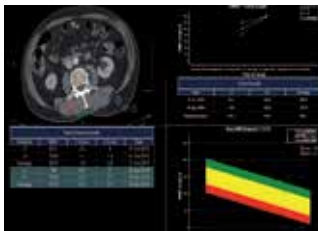


Visualize data from dual-energy acquisition

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 dual energy-acquisitions⁽¹⁾. This application is designed to assist in separation and analysis of different tissue materials based on their energy value.

✓ General

⁽¹⁾ Please contact your local Philips representative for details about multi-vendor coverage.



Track degenerative and metabolic bone disease

CT Bone Mineral Analysis (BMA) is designed to measure bone density at one or multiple time points. Using an internal reference method ⁽¹⁾, the application reduces 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.

✓ MSK

✓ Orthopedics

⁽¹⁾ 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

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.

✓ Surgery



CT Spectral - clinical applications

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

Advanced Visualization Workspace now offers

- Visualization, assessment and quantification of vessels in CTA and MRA
- Automatic bone removal, vessels extraction and labeling
- Automatic lumen and centerline calculation
- Findings management for capturing and communication in a structured manner
- Template-based measurements tailored to various pathologies and Stent planning
- Improved Spectral Magic Glass on PACS
- Spectral Photo Realistic Volume Rendering with 3D rendering

⁽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 - clinical applications



CT Spectral Viewer

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 comprehensive viewing environment enables easy switch across different spectral results through a viewport control and a comprehensive 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 viewer now offers Photorealistic Volume Rendering for non-HU images.

✓ General

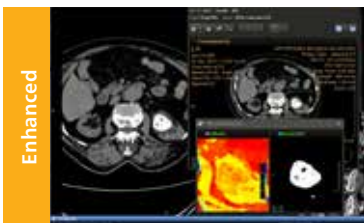


CT Spectral Tumor Tracking ⁽¹⁾

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.

✓ Oncology

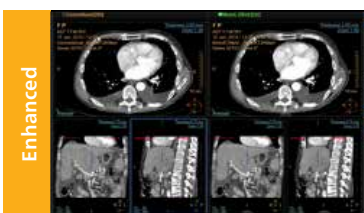


CT Spectral Light Magic Glass

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 light Magic Glass now supports Slab and 3D visualization.

✓ General



CT Spectral Magic Glass on PACS

Philips Spectral CT is the only family of scanners to offer CT Spectral Light Magic Glass and 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:

- On-demand simultaneous analysis of multiple spectral results for an ROI
- 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 shortcuts for fast switching of visualized spectral results
- CT Spectral Magic Glass on PACS now supports Slab and 3D visualization

✓ General



CT Spectral - clinical applications



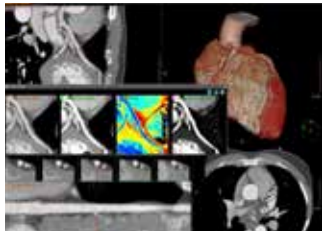
CT Spectral Cardiac Viewer⁽¹⁾

✓ Cardiology

Assists in viewing and evaluating CT images acquired on the Philips Spectral CT scanners for inspection of spectral images in axial, coronal, sagittal or dedicated cardiac axes (short axis, horizontal long axis, and vertical long axis).

CT cardiac spectral viewer now offers Photorealistic Volume Rendering for non-HU images.

⁽¹⁾ Optional add-on to CT cardiac viewer.



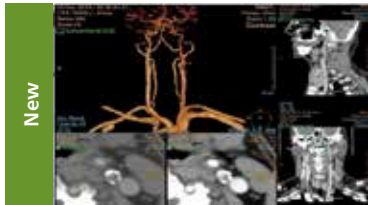
CT Spectral Comprehensive Cardiac Analysis ⁽¹⁾

✓ Cardiology

Supports automatic segmentation of cardiac chamber and coronary tree acquired on the Philips Spectral CT scanners, using MonoE images and provides information on physical (length, width, volume) and composition properties (effective atomic number, attenuation, HU) of the coronary vessel and findings along it.

The application also supports cardiac segmentation at different energy levels as well as the comparison of vessel curves from various spectral data types. CT Spectral CCA enhances the visual assessment of coronary vessel patency. The application also supports beam-hardening artifact reduction for the visualization of perfusion deficits and calcified plaque.

⁽¹⁾ Optional add in to CCA.



CT Spectral Advanced Vessel Analysis ⁽¹⁾ ⁽²⁾

✓ Cardiology

✓ Vascular

✓ Neurology

Supports in viewing and evaluating CT Angiography (CTA) cases, on contrast enhanced and whole body CTA scans, acquired on the Philips Spectral CT scanners family for the inspection of contrast-enhanced vessels.

The CT Spectral AVA application provides automatic, semi-automatic and manual bone removal functions for body and skull as well as automatic extraction of the vessel navigation-path. Lumen and vessel contours are generated after body bone removal. Automatic vessel labeling of major vessels is performed, if detected. Review modes include Volume Rendering, Maximum Intensity Projection, Volume Intensity Projection, Axial/ Coronal/ Sagittal orientation, and curved MPR view with cross sections. Results obtained at different energy levels can be compared. Measurements are provided for vessel assessment, including maximum and minimum cross section diameters, lumen areas, and vessel lengths.

CT Spectral advanced vessel analysis is now embedded within the Multimodality and advanced vessel analysis offers side by side review of multiple spectral results and improved workflow.

⁽¹⁾ Optional add-on to MultiModality Advanced Vessel Analysis.

⁽²⁾ New user experience workflow.

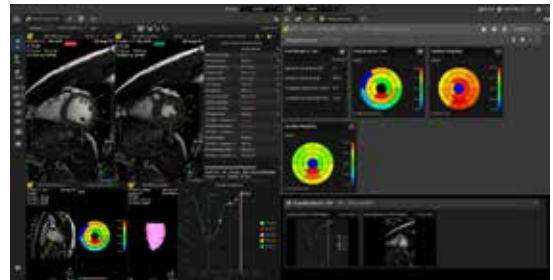


MR-clinical applications

MR Cardiac is a consolidated environment, powered by automatic algorithms that minimizes the work required to create results. Guided and customizable workflows allow optimization of the reading, reducing time for diagnosis.

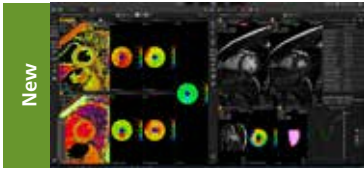
In this way we have the Advanced Visualization Workspace broad range of applications made available on automated, smart and facilitated workflows.

- Improved reading experience
- Automated and guided workflows
- Users to define their own reading workflow
- Multimodality 2D & 3D viewing
- Comparison to priors
- Automatic initial contours in application
- Finding dashboard, all results in one place





MR - clinical applications



Detailed quantification of cardiac function

MR Cardiac⁽¹⁾ (MRC) includes a multi-modality viewer, functional analysis and spatial enhancement modules. The MR Cardiac Viewer 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.

✓ Cardiology

Functional analysis allows volumetric analysis of both the left and right ventricles based on short axis or axial acquisition. The application provides fully 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). All results and screen captures can be saved and exported by the user using a Findings Dashboard that automatically collects findings during the reading.

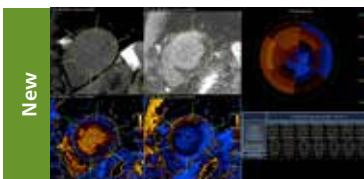
MR Cardiac Spatial Enhancement allows quantification of enhanced myocardial tissue using T1w and T2w multi-slice, single-phase short axis image acquisitions. Quantification is performed by intensity thresholding using one of user selected methods: manual threshold, Full Width Half Max (FWHM) derived threshold or threshold derived from the intensity Standard Deviation including no reflow volume areas.

MR Cardiac features:

- Enhanced look and feel aimed at an improved reading experience
- Enhanced and customizable reading workflows, multimodality 2D and 3D viewing, comparison with priors and flexible layouts
- Automated segmentation of LV&RV contours
- Consolidated findings dashboard includes all findings, side by side, allowing for a comprehensive patient overview

Additional clinical extensions for cardiac MR analysis can be purchased and included and launched from the same environment.

⁽¹⁾ New UI workflow based on previous version algorithms.

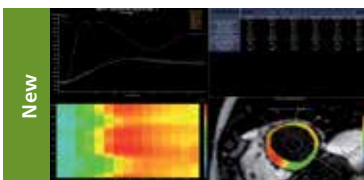


Assess myocardial tissue characteristics

MR Cardiac Quantitative Mapping⁽¹⁾ allows the user to verify and quantify parametric maps (T1 native, T1 Enhanced, T2 & T2*) delivered directly by the scanner, manual and or automatic motion correction in case of bad quality, and re-calculation of parametric maps in Portal. The user has options for local and regional segmentation to verify user-defined regions and provides user-customizable look-up tables (color bars) to concentrate on a user defined normal range for color coded maps. Numerical values, bull's eye in regional segmentation and screen shots can be saved and captured for communication.

✓ Cardiology

⁽¹⁾ New UI workflow based on previous version algorithms.



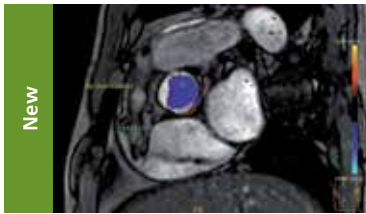
Support assessing temporal enhancements of the myocardium

MR Cardiac Temporal Enhancement (Perfusion)⁽¹⁾ facilitates myocardial analysis of dynamically resolved cardiac data (multi-slice, dynamics) and enables comparison of rest and stress studies. Results are presented using either the AHA standardized or adapted bull's eye views. The package includes a correction algorithm and manual tools to correct frame-to-frame heart displacements caused by breathing.

✓ Cardiology

⁽¹⁾ New UI workflow based on previous version algorithms.

MR - clinical applications



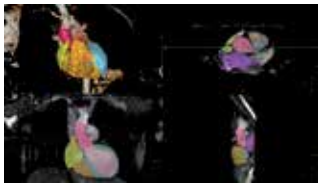
Visualizing and quantifying blood flow dynamics

Now with new UI and with result driven workflow

MR QFlow⁽¹⁾ 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. Quantification includes the following parameters: stroke volume, regurgitant fraction, forward and backward flow volumes, flux, stroke distance, mean velocity, maximum velocity, minimum velocity, peak velocity, vessel area, peak pressure gradient, E/A ratio, and deceleration time. The application supports manual Background Correction (BC) to correct for phase (velocity) offset. Qflow analysis is integrated as part of MR Cardiac Suite allowing flow and functional analysis in one suite with combined reporting. Qflow now supports savings of customer labels within the vessel table.

⁽¹⁾ New UI workflow based on previous version algorithms.

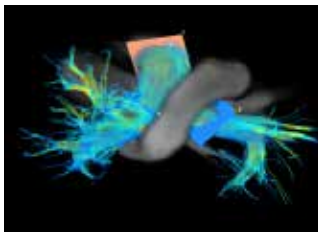
- ✓ Vascular
- ✓ Cardiology



Detailed 3D visualization of the segmented heart

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.

- ✓ Cardiology



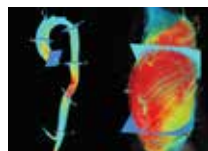
Visualization and quantification of blood flow

MR Caas⁽¹⁾(2) 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 intuitive and validated workflows that guide you to reliable and reproducible results in a few easy clicks, to support your clinical decision making and planning.

⁽¹⁾ Caas is a trademark of Pie Medical Inc.

⁽²⁾ These functionalities may not be available in all territories. Please contact your Philips representative for more details.

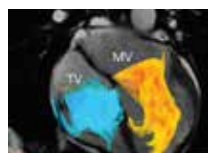
- ✓ Cardiology
- ✓ Vascular



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⁾

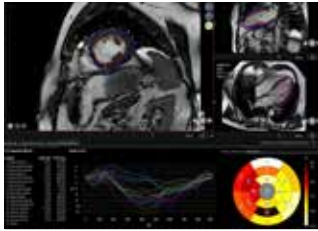
Used to visualize and measure flow in the heart chambers and over all four heart valves during the heart cycle. The blood flow can be visualized by streamlines over the heart valves. Automated tracking of a valve plane allows multi-valvular flow for the same cardiac cycle⁽²⁾. Speed overlays are available 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.



MR - clinical applications



Quantify myocardial strain⁽¹⁾

MR Caas⁽²⁾ Strain⁽¹⁾⁽³⁾ 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.

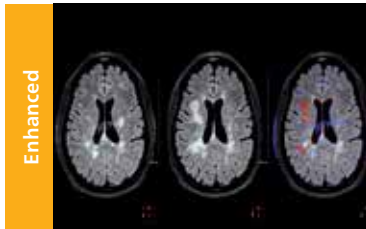
⁽¹⁾ These functionalities may not be available in all territories.

Please contact your Philips representative for more details.

⁽²⁾ Caas is a trademark of Pie Medical Inc.

⁽³⁾ Currently not available for sale in the US.

✓ Cardiology



Visualize subtle changes in brain images over time

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 now 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.

✓ Neurology

✓ Oncology



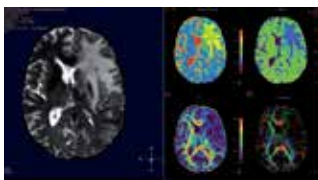
Automated brain image analysis

MR NeuroQuant⁽¹⁾⁽²⁾ 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. NeuroQuant offers now the integration of a heatmap as part of the results.

⁽¹⁾ NeuroQuant is a trademark of CorTechs Labs, Inc.

⁽²⁾ Not available for sale in all countries. Please check for availability in specific countries.

✓ Neurology



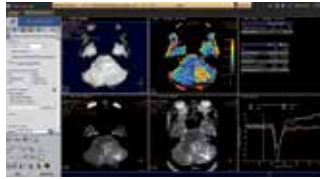
Analyze diffusion and anisotropic properties of tissue

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.

✓ Neurology

✓ Oncology

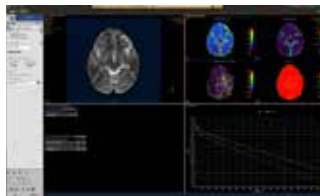
MR - clinical applications



Reviewing brain tissue perfusion viability

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.

✓ Neurology



Computed diffusion weighted images at a b-value of choice

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).

✓ Neurology

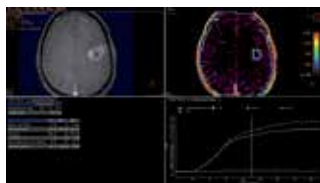
✓ Oncology



Visualize white matter connectivity in the brain

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.

✓ Neurology



Lesion characterization by reviewing vascular leakage

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 K_{trans} , K_{ep} , V_e and V_f . The application has been validated for prostate and brain cancer.

✓ Oncology

✓ Neurology



Review metabolite maps

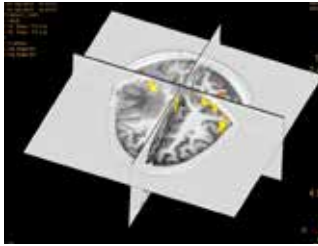
MR SpectroView is a task-guided application providing hydrogen single voxel spectra as well as metabolic and ratio maps. The application automatically identifies the anatomy to preselect appropriate metabolites or supports a user-defined combination of metabolites.

✓ Neurology

✓ Oncology



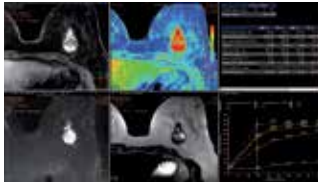
MR - clinical applications



Brain activation analysis

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.

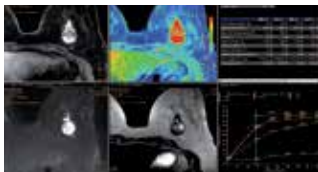
✓ Neurology



Evaluate time intensity curves

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.

✓ Oncology



Perform basic calculations between two volumes

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.

✓ Neurology

✓ Oncology

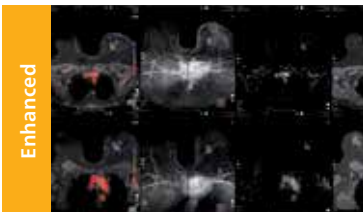


Automatic review of total body MR data

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.

✓ Oncology

✓ Neurology



Next-generation of breast care

DynaCAD Breast⁽¹⁾⁽²⁾ has been tailored to enhance the review and analysis of MRI breast studies by providing a flexible workspace with custom hanging protocols and multi-vendor⁽³⁾ viewing capabilities. DynaCAD's automatic segmentation allows for on-the-fly user modification and provides volume analysis, lesion composition statistics, histograms, and a 3D rendered morphological overview. Results are automatically incorporated into standardized reports. The DynaLOC Breast Interventional Planning software module offers visual guidance for planning MR-guided breast biopsy procedures.⁽⁴⁾

✓ Oncology

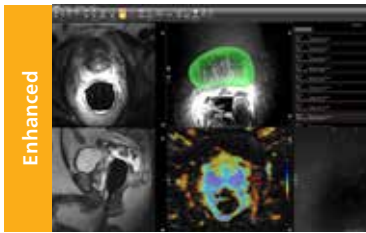
⁽¹⁾ This functionality is not available in Advanced Visualization Workspace workstation configuration.

⁽²⁾ The application is not available in all markets. Please contact your local Philips representative for more details.

⁽³⁾ Please contact your local Philips representative for information regarding multi-vendor coverage.

⁽⁴⁾ Please contact your Philips representative for specific details on the DynaLOC configuration for real time procedures.

MR - clinical applications



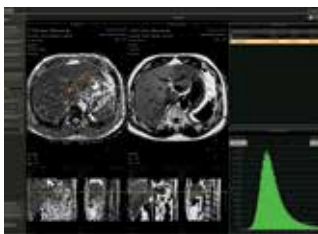
Advanced prostate image analysis

DynaCAD Prostate⁽¹⁾⁽²⁾ provides a powerful, easy-to-navigate, multi-vendor⁽³⁾ MR image analysis application featuring custom hanging protocols with all images synchronized for easy, multi-parametric review. DynaCAD features automatic segmentation of the prostate gland, providing an overall gland volume estimation. It also features single-click volume analysis, and lesion statistics, and histograms as well as color overlay based on diffusion ADC values. Lesions are assessed using the PIRADS v2 scoring and incorporated into standardized reports. Lesions identified and marked on the system can be passed to a UroNav system for MR/Ultrasound fusion biopsy.

DynaCAD prostate now automatically registers targets to the PIRADS sector map, streamlining workflow and enhancing accuracy for radiologists.

- ⁽¹⁾ This functionality is not available in Advanced Visualization Workspace workstation configuration.
- ⁽²⁾ The application is not available in all markets. Please contact your local Philips representative for more details.
- ⁽³⁾ Please contact your local Philips representative for information regarding multi-vendor coverage.

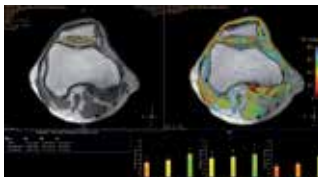
✓ Oncology



Automated MR liver assessment

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.

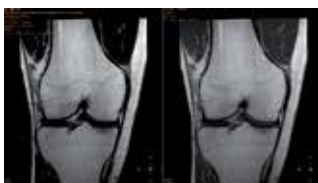
✓ Radiology



Visualize cartilage structures

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.

✓ Orthopedics



Optimizing image contrasts for multi-echo MR data

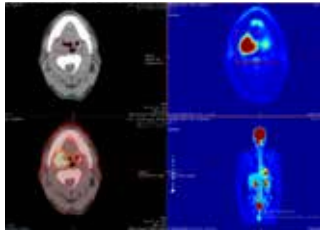
MR Echo Accumulation is used to perform pixelwise echo accumulations for imaging series with multiple echoes. It enables preview, save and analysis on the calculated new series.

MR Echo Accumulation enables the calculation of new images based on the selected sum of echo times of series with multiple echoes. The processing provides interactive update of the results.

✓ Orthopedics



MI - clinical applications



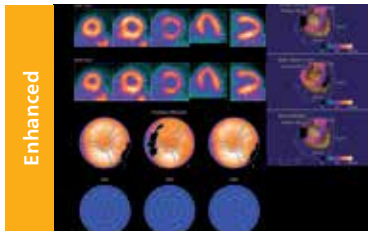
PET/CT and NM viewing and quantification

NM Mirada Viewer⁽¹⁾ 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.⁽²⁾ The Mirada Viewer includes quick and configurable protocols for convenient 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 inc. For details on Mirada latest version availability, please contact your Philips representative.

⁽²⁾ Please contact your local Philips representative for details on multivendor coverage.

- ✓ Oncology
- ✓ Neurology
- ✓ General Nuclear Medicine



Enhanced

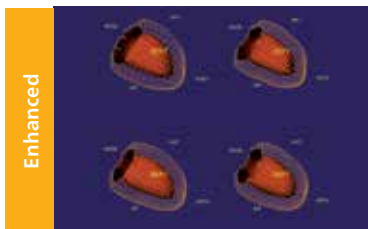
SPECT and PET cardiovascular quantification, review, and reporting

NM Corridor4DM⁽¹⁾ 2023 is designed for advanced cardiovascular quantification and image display and includes intelligent workflow and quality assurance measures for increased confidence. Quantify myocardial perfusion, function, and viability using multiple review screens, with integrated reporting through customizable templates. NM Corridor4DM includes: LV surface estimation and quantification.

- Quantifies, displays, and provides reporting for SPECT and PET myocardial perfusion and function, PET FDG metabolism, and SPECT blood pool studies in a single, configurable application
- Provides tools to generate and review DICOM static and multi-frame secondary screen captures
- Configurable for different workflows, protocols, and preferences
- PET Myocardial Blood Flow (MBF) quantification
- LV surface estimation and quantification

⁽¹⁾ Corridor4DM is a registered trademark of Invia, LLC.

- ✓ Cardiology



Enhanced

Advanced cardiac quantification

NM Cedars-Sinai Cardiac Suite 2017⁽¹⁾ ⁽²⁾ ⁽³⁾ provides comprehensive cardiac quantification tools for gated, perfusion, and blood pool SPECT and quantitative PET. Cedars-Sinai Cardiac Suite 2017 application provides efficient 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, QBP analysis
- QPET analysis

V2017.22 of the Cardiac Suite brings a host of new features and improvements:

- Improved ROI segmentation accuracy
- Ability to handle low signal-to-noise ratio images
- Faster processing time
- Better user interface

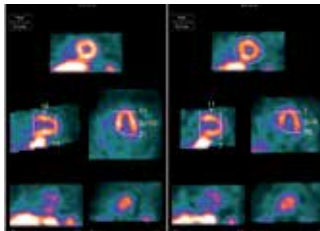
⁽¹⁾ Not available for sale in all countries. Please check for availability in specific countries.

⁽²⁾ Cedars-Sinai Cardiac Suite is a registered trademark of Cedars-Sinai.

⁽³⁾ Clients no longer support the 2012 and 2013 versions of this application (Cedars) due to Microsoft® discontinued support of Windows 7. Contact the supplier for additional details and support. (This is for customers who are upgrading to ISP12 or AVW15 12 from earlier versions).

- ✓ Cardiology

MI - clinical applications



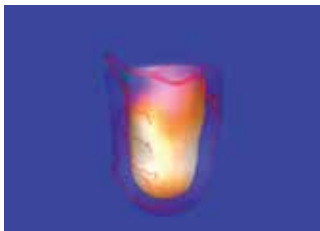
Cardiac analysis

The **NM Emory Cardiac Toolbox (ECTb) v4.2**⁽¹⁾ 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.

✓ Cardiology

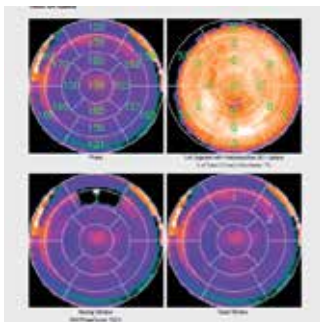


Evaluate fused coronary anatomy

NM Emory Cardiac Toolbox (ECTb) HeartFusion⁽¹⁾ 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.

✓ Cardiology



Assess cardiac mechanic dyssynchrony

NM Emory Cardiac Toolbox (ECTb) SyncTool⁽¹⁾ 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.

✓ Cardiology



Aiding the differential diagnosis of dementia

The **NM NeuroQ**⁽¹⁾ 3.8 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

⁽¹⁾ NeuroQ is a trademark of Syntermed.

✓ Neurology



MI - clinical applications

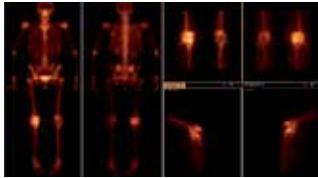


Assessing Amyloid plaque

The **NM NeuroQ⁽¹⁾ 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.

✓ Neurology



Streamline Molecular Imaging workflow

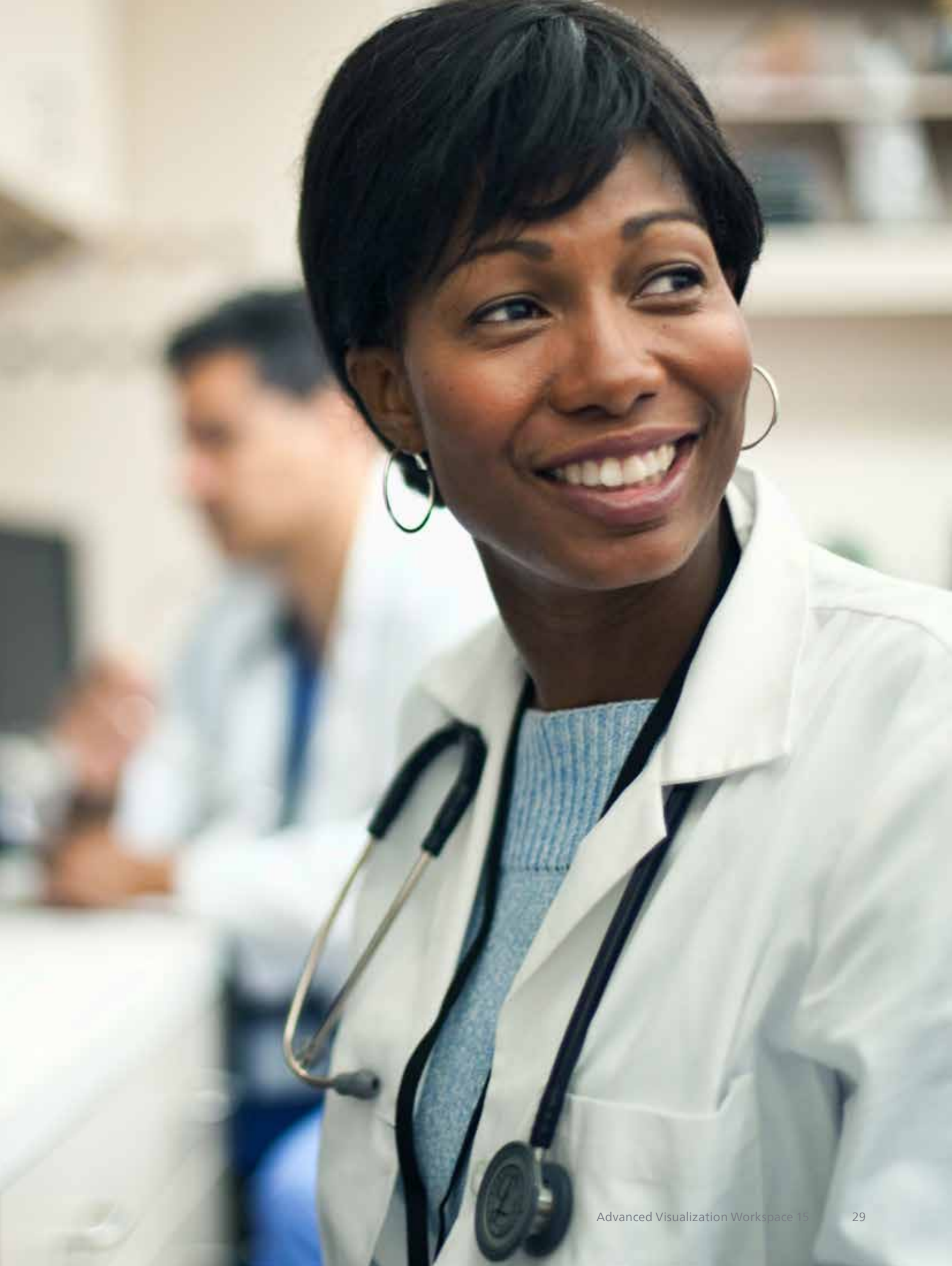
NM Suite⁽¹⁾ implements state of the art clinical methods and provide for physicians a viewing, processing and analysis environment for planar data and usage of specific SPECT Nuclear Medicine data.

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 fully integrated with viewing, image and curve Manipulation tools. The users can invoke these tools “when needed where needed”. All applications support “state-of-the-art” protocol and preference management that allows the users to configure their workflow and usability “on the fly”. The QA tools provide a comprehensive set of tools to perform daily and periodic QA.

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

✓ Molecular Imaging



Advanced Visualization Workspace optimizes **your workflow**

Optimized Workflow Across Modalities

In radiology, time is critical and patients requiring advanced visualization can have the most complex imaging studies. Philips Advanced Visualization Workspace is designed to incorporate studies from a variety of imaging modalities. The platform supports consistency across modalities and offers multi-vendor⁽¹⁾ coverage for the different scanners in your department.

Seamless 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⁽²⁾ and with applications which can be connected to the Advanced Visualization Workspace platform.

⁽¹⁾ Please contact your local Philips representative for details on multi-vendor coverage.

⁽²⁾ Requires integration with your PACS vendor which may vary between vendors.

Adaptive And Responsive To Your Needs

With the machine learning features, Advanced Visualization Workspace automatically learns from your prior application usage to anticipate the series and data type which preprocessing should be applied. Periodically, the feature relearns usage patterns to track any changes in your imaging needs with no user configuration required. Combined with configurable hanging protocols, Advanced Visualization Workspace optimizes to fit your specific needs.

Make The most Of Your Advanced Analysis With Real-time, Context-Based Training⁽³⁾

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 v15 user can access these resources through the main screen or from within any application.

⁽³⁾ The virtual application guide may not be available in all languages.

Results Generation And Sharing

Create a customized report for a comprehensive 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 or integrate with the Vue PACS multi-media reporting function⁽¹⁾. Support consistency in your reporting with integrated PowerScribe360 connectivity.

⁽¹⁾ Upon Release of Philips Image Management v15.1.

My Enterprise Monitoring

My Enterprise Monitoring (MEMO) brings peace of mind to Philips informatics customers. 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 ensure optimum operation of systems. Customers can receive timely notifications and access our technical experts at any time.

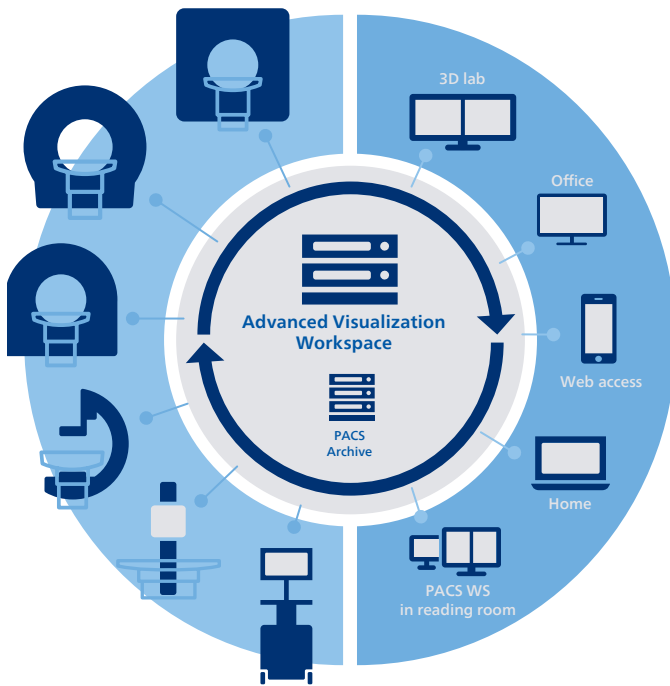
A unified diagnostic workspace for confident reading

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

