Vital Images, Inc., a Toshiba Medical Company, is a leading provider of healthcare imaging informatics solutions, including advanced visualization, enterprise image viewing solutions and business intelligence technology designed to help healthcare organizations deliver exceptional care while optimizing resources across multi-facility organizations. The company’s solutions are scalable to meet the unique needs of hospitals and imaging centers and are accessible throughout the enterprise anytime and anywhere.
For more than 25 years, Vital has been a pioneer in imaging solutions. Our suite of software and tools help healthcare organizations deliver exceptional care while optimizing resources across multi-facility organizations. The company’s solutions are scalable to meet the unique needs of hospitals and imaging centers and are accessible throughout the enterprise anytime and anywhere.
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Enterprise Informatics

Vitrea® Enterprise Informatics solutions offer tailored approaches to data management, with Vitrea Vendor-Neutral Archive (VNA) providing image consolidation and Vitrea Data Stream delivering federated access to images.

Enterprise Analytics

Healthcare providers frequently struggle for access to meaningful data about their practice’s resources. Vital’s imaging-centric management support tools help you continuously improve efficiency and quality across the practice.

Enterprise Visualization

One viewer doesn’t meet all image display needs. While universal viewers give a generic overview, the Vitrea family of viewer options provides a wide array of clinical tools at your disposal, serving every clinical space from the ED, to surgery, radiology and beyond.
Vitrea® Modular Enterprise Imaging offers multiple viewing, workflow and storage options to improve productivity and interoperability. A combination of products, including Vital’s imaging enterprise solutions, include customized deployment options.
Vitrea® Application-Neutral Architecture
Non-disruptive, adaptable, interoperability platform

This next-generation approach focuses on customer-centered vendor interoperability, rather than creating additional silos of large data prevalent in the “big bang” VNA realm. The solution was specifically designed to address the semantic interoperability chasm between structured and unstructured data sets, promoting federated, real-time access to information.

- Offers a customer-centered approach
- Facilitates advanced interoperability between existing healthcare informatics applications
- Communicates with numerous subsystems: ECM, VNA, PACS, EMR, HIE and other health information systems
- Promotes a federated “real-time access to information” model
- Avoids “big bang” centralization of a typical VNA project
Vitrea® Vendor-Neutral Archive

Next-generation VNA built on open-source technology

Vitrea Vendor-Neutral Archive is a consolidating image management solution meeting challenges within healthcare systems today, such as easing migration of systems and enabling access to imaging data across modalities, locations and vendors.

- Multimedia storage in native format – DICOM and non-DICOM
- Intelligent image management workflow – pre-fetch, IOCM, tag morph, auto routing
- Horizontal scalability – quickly expand storage without downtime, avoid “crisis” hardware purchases
- VNA on demand – avoid costly “big bang” data migration
- Standards-based design – DICOM, DICOMweb, XDS/XDSi, avoid future data migrations
- VNA “on demand” – allows for calculated conversion from existing PACS or VNA reducing costly migration fees
Vitrea® Data Stream

DICOMweb™-powered workflow engine that allows for extremely fast query and presentation of clinical images

Vitrea Data Stream provides clinicians access to images that reside in disparate DICOM archives. Using secure Web technologies, it delivers fast access to images without costly consolidation and migration of imaging data.

- Converts DICOM to DICOMweb
- Can query multiple, disparate PACS systems simultaneously across
- Departments/service lines
- Different facilities
- Different vendors
- Uses secure web protocol for maintenance of PHI factors
- Single EMR presentation point when linked to a DICOMweb-capable viewer
**Viewing Platform**

Multiple viewing options based on the anatomy, disease, viewing device and needs of the end user

- Vitrea® Enterprise Viewer – image enable the EMR
- EasyViz® Diagnostic Viewer – diagnostic-quality image presentation across multiple monitors
- Vitrea Advanced Visualization – premier advanced visualization for all modalities
- TomTec™ – cardiology image display
- Your existing PACS viewer

**Workflow**

- Vitrea Data Stream – converting DICOM to DICOMweb™ for an optimized image viewing experience
- Vitrea VNA – next-generation VNA providing workflow to DICOM and non-DICOM images

**Storage**

- Expand storage without downtime
- Simply create a business continuity solution
- Multiple disaster recovery options

*EasyViz is manufactured by Karos Health. **TomTec is manufactured TomTec Imaging Systems.
EasyViz Diagnostic Radiology Viewer

EasyViz is a full-fidelity, diagnostic-quality viewer, available in a number of deployment options.

**Full client**
- Up to three monitor configurations and up to 10MP resolution
- CINE frame rate of 30-90 fps
- Advanced hanging protocols, including mammography
- Full range of diagnostic tools
- Drag and drop image arrangement
- Priors management
- Customizable toolbar
- Support for 3D, DBT
- Simple install through browser download

**Thin Client**
- Up to two monitor configurations and up to 3 MP resolution
- CINE frame rate up to 30 fps
- Supports session collaboration
- Advanced hanging protocols, including mammography
- Full range of diagnostic tools
- Drag and drop image arrangement
- Priors management
- Customizable toolbar
- Support for 3D, DBT
- Simple install through browser download

**Zero Footprint**
- Single-monitor configuration and up to 3 MP resolution
- CINE frame rate up to 30 fps
- Supports session collaboration
- Advanced hanging protocols, including mammography
- Full range of diagnostic tools
- Drag and drop image arrangement
- Priors management
- Customizable toolbar
- Support for 3D, DBT
- No PHI on device
- No downloads

*EasyViz is manufactured by Karos Health. **Not for sale in the US.
Enterprise Analytics

Vitrea® Imaging Resource Planning

Healthcare providers frequently struggle for access to meaningful data about their practice’s resources. Data is often stored in service-line specific information systems or resides in disparate databases, requiring IT resources to create and generate reports. Vitrea Imaging Resource Planning is an extensible suite of management support tools that unlock access to the data you need to make evidence based decisions to continuously improve efficiency and quality across the practice.
Vitrea Imaging Resource Planning

Vitrea Imaging Resource Planning provides insight at all organizational levels — from health system-wide trends to the utilization of a specific resource, on demand and in real-time. The application gathers and stores operational data from isolated systems independent of manufacturer or vendor to provide a comprehensive view of your practice. Self-service access to data you need to support resource management decisions are provided through an extensible suite of applications.

These are just some of the questions you can answer with self-service data access:

- How quickly are we able to perform brain scans on stroke patients?
- What is the average time to the third available appointment for an MRI at each of my facilities?
- Have I lost business from my referring physician base recently?
- Am I using my modality resources effectively and efficiently?
- What kinds of procedures are being performed on each of the CT scanners in my fleet?
- What is the utilization rate of each of my ultrasound modalities or other portable devices?
- What is the report turnaround time for emergency patients at each of my facilities?
- How should I staff for the upcoming holiday weekend?
- Who are my top referring providers of high RVU exams?
- Are we managing radiation dose levels appropriately across procedures, equipment and staff?

Do you have self-service access to the data you need to answer these questions today?
Quality KPI Manager
Select from pre-defined imaging workflow metrics to create powerful dashboards with an easy to use builder interface.

Productivity Monitor
Ask questions and get answers when and where you need them in real-time on demand. Investigate data at the highest levels and drill down to specific areas of interest.

Scanner Utilization
Employ these tactical tools to manage the flow of patients through your imaging departments with real-time visibility into patient wait, exam status, exam time and scheduled exams.

Report Search
Unlock the value of diagnostic reports with full-text report search of your entire report repository.
Vitrea Enterprise Viewer is a diagnostic-quality, zero-footprint viewer, which provides fast and secure Web-based access to patient information from multiple systems and archives. It helps to integrate images effectively into the primary clinical workflow and improve care coordination by providing a single point of access to DICOM images and multimedia files on a browser, tablet or smartphone.

Enterprise Visualization

Vitrea® Enterprise Viewer

Vitrea Enterprise Viewer is not intended for diagnostic use when accessed from a mobile device.
Vitrea® Enterprise Viewer helps to improve collaboration among experts across your medical enterprise, helping you consolidate and standardize workflows. Consistent workflows and a unified user experience improve adoption and lower support costs.
Enterprise Visualization
Vitrea® Advanced Visualization
Full-powered Solutions for 2D, 3D and 4D

Vitrea software is a multi-modality advanced visualization system providing comprehensive applications in a variety of IT environments.

Multi-modality applications enhance diagnostic confidence across the organization. By providing access to advanced clinical tools, Vitrea software enables physicians to have meaningful interactions wherever they are.

Advanced imaging tools, such as in-suite 3D viewing and automated measurements, provide physicians with patient information anywhere, anytime. Radiologists can share images throughout their enterprise and collaborate in real-time with other physicians to help achieve better outcomes.
Vitrea® Advanced Visualization Deployments

Workstation
The workstation deployment is an intuitive, multi-modality advanced visualization solution that increases scanner productivity by extending workflow beyond the scanning console and optimizing time and resources to produce clinical results. The workstation provides full Vitrea functionality.

Extend
The extend deployment helps to improve patient care by reducing information delays and by providing quick access to the exams required by your clinical workflows. A centralized database and multiple access points ensure that clinicians can share work using the same tools and interface.

Easy to deploy and maintain, the extend deployment delivers industry-leading clinical applications without adding significantly to the IT footprint. By supporting three concurrent advanced visualization sessions from a variety of access points, the extend deployment eliminates the need to maintain multiple workstations that have low utilization rates and potentially high service costs.

Enterprise
Fueled by intelligent automation, the enterprise deployment helps to improve efficiency and offers a straightforward approach to complex information, allowing all members of the care team to share images and clinical functionality anytime, anywhere within the enterprise.

All of our clinical applications leverage the power of Vital’s image management system, giving our customers the ability to centrally manage their images and workflows.
Vitrea® Advanced Visualization
Clinical Applications

Vital’s suite of applications offers full-powered solutions for 2D, 3D and 4D advanced visualization used to process and analyze clinical data from multiple modalities – CT, MR, XA, PET, US and SPECT. Applications for Cardiology, Neurology and Oncology provide comprehensive toolsets that supply medical specialists with information for planning procedures and treating patients.
**Multi Modality Viewer**
- Intuitive presentation, navigation and manipulation of multi-modality images
- Seamless features to compare multiple series
- Ability to switch to additional integrated applications to further post-process or quantify the series

**CT Body Perfusion 4D**
- Whole-organ 3D perfusion
- Single-input organ workflow for display of Arterial Flow (AF) map
- Dual-input lung workflow for display of Pulmonary Flow (PF) and pulmonary Perfusion Index (PI) maps
- Dual-input liver workflow for display of AF, PF and hepatic PI maps
- Deformable registration and motion correction

**CT Brain Perfusion 4D**
- Automatic calculation of quantitative brain perfusion results
- Summary map with single view for communication of the perfusion results
- Automatic curve-fitting and motion correction

**CT Brain Perfusion 2D**
- Automatic calculation of quantitative brain perfusion results
- Summary map with single view for communication of the perfusion results
- Automatic curve-fitting and motion correction

**CT Brain Perfusion 4D**
- Automatic calculation of quantitative brain perfusion results: Regional Cerebral Blood Volume (rCBV), Mean Transit Time (MTT), Regional Cerebral Blood Flow (rCBF), Time-to-Peak of tissue response curve (TTP), delay of tissue response curve
- Single-view summary map for communicating the flow of contrast through the vessels
- Automatic arterial and venous phase separation in 3D views of the arteriogram and venogram (generated CTA-V view)
- Fusion of parametric and anatomical CT view

**CT Cardiac Analysis**
- Automatic segmentation of the heart in single or multiple phases
- Automatic coronary artery segmentation
- Curved planar reformat (CPR) views and vessel labeling
- Key findings classification for consolidated reporting of cardiac workflows
- Ability to display a subtraction and non-subtraction (CTA) series in a comparison side-by-side layout
- Ability to view a 3D image of the heart with blood filled chambers segmented out creating an angiographic MIP view

**CT Cardiac Functional Analysis**
- Automatic segmentation of the heart, left ventricle and myocardium in multiple phases
- Automatic calculation of global metrics, including: end diastolic volume, end systolic volume, stroke volume, ejection fraction, cardiac output, cardiac index, stroke index and myocardial mass
- Short-axis, long-axis and four chamber views of the heart
- Automatic calculation of regional metrics, including: wall motion; percentage of wall thickening and regional ejection fraction; and polar maps with live 3D beating heart visualization
- Key findings classification for consolidated reporting of all cardiac workflows
CT Colon Analysis
- Auto-segmentation of colon with creation of 2D and 3D centerline for simultaneous multiplanar reformatting (MPR) and 3D review
- Single-click polyp segmentation for morphological characterization and quantification of size, density and distance to rectum
- Integrated net view and endoluminal fly-through
- Automatic fluid/stool tagging and subtraction
- Polyp assessment and reporting using C-RADS guidelines

CT Endovascular Stent Planning
- Automated segmentation of the aorta with centerline and contour editing tools
- Stent-graft templates for abdominal and thoracic aortic aneurysms
- User-guided workflow with automated identification of anatomical landmarks and stent-specific endovascular measurements
- Key measurements supporting fenestrated grafts using the clock angle tool and clock overlay functionality
- Create new, add or modify stent planning templates with the Custom Device Template Editor

CT EP Planning
- Automated segmentation of the left atrium and pulmonary veins
- Automatic centerline and lumen boundaries with 3D fly-through for visualization and measurement of the pulmonary vein ostia
- 3D model export to the St. Jude EnSite® system

CT Fat Measurement*
- Segment subcutaneous and visceral fat regions
- Evaluate fat segmentation results
- Dedicated application report with results based on the obesity standard associated with the selected report guideline

CT Liver Analysis
- Tumor tracking with RECIST and WHO measurements
- Single-click liver and vascular segmentation
- Single-click tumor probe with tumor margin borders viewing in 2D/3D
- Volume fusion, support for up to four timed phases. For example, arterial, venous or delayed
- Virtual resection planning
- Structured reporting available for export in the Viewer tab as well as the Reporting tab
- Single click lung nodule segmentation tools to include solid nodules and ground glass opacity (GGO) nodules

CT Lung Analysis
- Semi-automated segmentation of lung and airways
- Restore previously segmented nodules from prior studies for comparison
- Evaluation of nodules with quantitative measurements
- Dictation Table with Fleischner Criteria for reference within the application
- Structured reporting available for export in the Viewer tab as well as the Reporting tab
- Single click lung nodule segmentation tools to include solid nodules and ground glass opacity (GGO) nodules

*CT Fat Measurement is only available in select countries. It is not available in the US.
CT Lung Density Analysis
- Semi-automatic right lung, left lung and airway segmentation
- Visualization of lung density with color-defined Hounsfield Unit (HU) ranges
- Lung density result quantification with HU density range, volume measurements, lung density index and the PD15% measurement
- Density graph/histogram of the classified lung voxels' relative frequencies
- Comparison of upper and lower lung density index ratios
- Adjustable density thresholds for refining and optimizing HU ranges

CT Lung Screening Solution
- Vitrea Advanced Visualization’s flagship CT Lung Analysis application with Image Denoising
- Support of Nuance PowerScribe® 360 Reporting
- PenLung™ by RenRad unified software solution
- Integrated with Visia™ CT Lung CAD
- Custom report templates with Lung-RADS™ and ACR guideline
- Comprehensive resource center for education

CT Lung Multi-Chamber CFA
- Semi-automatic segmentation of left atrium (LA), right ventricle (RV), left ventricle (LV) and myocardium, including identification of long axis and mitral valve boundaries across multiple phases
- Automatic calculation of RV/LV End Diastolic Volume (EDV), End Systolic Volume (ESV), Stroke Volume (SV), Cardiac Output (CO), 3-point LA metrics, LV/RV regurgitation fraction, cardiac index and myocardial mass
- Calculation of regional metrics including wall motion, percentage of wall thickening, regional ejection fraction and polar plots
- Key findings classification for consolidated reporting of cardiac workflows

CT Myocardial Perfusion
- Semi-automatic segmentation of left atrium (LA), right ventricle (RV), left ventricle (LV) and myocardium, including identification of long axis and mitral valve boundaries across multiple phases
- Automatic calculation of perfusion results
- Single and dual-volume analysis of S1 (early acquisition) and S2 later acquisition
- Ability to view cardiac vessels over colored attenuation data
- Support for single or dual-volume exams

CT SUREPlaque™
- Single-click segmentation, with automatic centerline and lumen boundaries for plaque characterization and quantification based on CT HU values
- Adjustable plaque thresholds for each identified lesion
- Automatic measurement and display of: lumen area and diameter; plaque area; plaque burden; ratio of wall area and lumen area; plaque volume; and plaque index

CT TAVR Planning
- Three-point aortic valve/annulus plane definition
- Display of C-Arm angle for device placement
- User guided automation for annulus sizing with diameters, area and circumference
- User guided automation for right and left ostium measurements
- User guided automation for access measurements with histogram and catheter sizing
- Comprehensive reporting of measurements, including diameter, area, angle circumference and length
- Create new, add or modify stent planning templates with the Custom Device Template Editor
CT VScore™
- 2D and 3D visualization
- Report template autofills user selected scores
- Calculation of calcium score using Agatston, Volume or Mass

Vitrea® Image Denoising
- SPD denoising algorithm
- Customized filter, with reduced pixel noise and improved signal contrast to noise ratio (SNR)
- Real time toggle between original and denoised volumes
- Predefined image filter presets may be modified and saved for future use
- Interactive denoising preview capability
- Compatible with multi-phase and multi-volume datasets within select corresponding protocols

Vessel Probe
- The Vessel Probe tool creates a centerline through the vessel lumen
- Multiple Image viewing formats including orthogonal MPR (multiplanar reformatted), oblique MPR, curved MPR, 3D, and curved reformatted views of the selected vessel.
- Automated Stenosis Measurement tools that include single and dual reference, NASCET and average
- Automated internal and external lumen boundary detection, including maximum and minimum lumen diameters

3D Printing
- 3D models can be created from CT, MR, or XA images and exported from Vitrea in the form of stereolithography (STL). STL files are used in a wide variety of other applications.
- 3D print on-demand
- Best-in-class 3D printing
- Ability to print 3D models in a wide range of materials and colors—from soft and dissectable to rigid and durable

MR Brain Tumor*
- Fully automated step-by-step processing for patients suffering from brain tumors, including quantitative and qualitative multiparametric analysis
- Includes:
  - Dynamic Susceptibility Contrast (DSC) Perfusion Weighted Imaging (PWI)
  - Dynamic Contrast Enhanced (DCE) Permeability
  - Diffusion Weighted Imaging (DWI)
  - Advanced Multiparametric Analysis
  - Diffusion Tensor Imaging (DTI) / Fiber Tracking
  - Intravoxel Incoherent Motion (IVM)
- Quantitative Results

MR Breast*
- Efficient tools for breast cancer detection, characterization and staging.
- Provides instant comprehensive lesion assessment and high quality diffusion assessment
- Offers BI-RADS reporting, which facilitates communication of results between referring physicians
- Includes:
  - Dynamic Contrast Enhanced (DCE) Permeability
  - Advanced Multiparametric Analysis
  - Kinetics
  - BI-RADS® Report
  - Intravoxel Incoherent Motion (IVM)
  - Quantitative Results

*Powered by Olea Medical
MR Female Pelvis
Analyze morphological changes on the pelvic female organs under pathological conditions
Includes:
- Dynamic Contrast Enhanced (DCE) Computation
- Advanced Multiparametric Analysis
- Intravoxel Incoherent Motion (IVM)
- Quantitative Results

MR Head and Neck
Advanced post-processing and 3D visualization tools for the diagnosis of head and neck lesions
Includes:
- Diffusion Weighted Imaging (DWI)
- Dynamic Contrast Enhanced (DCE) Computation
- Advanced Multiparametric Analysis
- Intravoxel Incoherent Motion (IVM)
- Quantitative Results

MR Musculoskeletal
Optimal visualization and assessment of soft tissue and bony structures
Includes:
- Analysis
- Relaxometry
- Dynamic Contrast Enhanced (DCE) Computation
- Intravoxel Incoherent Motion (IVM)
- Quantitative Results

MR Neuro ASL
Neuro Arterial Spin Labeling (ASL) applications use non-invasive imaging to efficiently measure perfusion. Holds an advantage over contrast agent-based methods for patients with contraindications for contrast agent injection. Uses spatial smoothing and denoising of images to increase signal-to-noise ratio
Includes:
- Diffusion Weighted Imaging (DWI)
- Analysis
- Diffusion Tensor Imaging (DTI) / Fiber Tracking
- Quantitative Results

MR Prostate
Comprehensive lesion assessment and high quality diffusion assessment
Includes:
- Dynamic Contrast Enhanced (DCE) Computation
- Advanced Multiparametric Analysis
- Intravoxel Incoherent Motion (IVM)
- Quantitative Results

MR Rectum
Delineate tumoral margins and assess mesorectal involvement, nodes and distant metastases
Includes:
- Dynamic Contrast Enhanced (DCE) Computation
- Advanced Multiparametric Analysis
- Intravoxel Incoherent Motion (IVM)
- Quantitative Results

*Powered by Olea Medical
MR Stroke*
- Expert stroke post-processing options, parameters, maps and metrics
- Fully automated workflow saves time in patients presenting with a stroke
- Enables a contrast-dose reduction for brain perfusion using the Bayesian method

Includes:
- Diffusion Weighted Imaging (DWI)
- Dynamic Susceptibility Contrast (DSC) Perfusion
- Advanced Multiparametric Analysis
- Intravoxel Incoherent Motion (IVIM)
- Longitudinal Analysis
- Quantitative Results

XA 3D-Angio
- Digital subtraction angiography (DSA) protocol with preset visualization settings for 3D evaluation of vessels
- Multi-volume fusion for display of vessels, device and bone
- Standard 3D tools for dataset work
- Single-click segmentation, with automatic centerline and lumen boundaries
- Display of clinical angles, which update automatically as volume view rotates and can be sent back to the X-ray system for position of the C-Arm with a single click**

System Health**
Vitrea System Health provides a real-time visibility of various system health parameters. It provides visibility into the Vitrea servers and allows administrators to view a summarized system health status at the service/device level or at an overall facility/deployment level.
- View the status of installed services on the Vitrea workstation
- View the session activity and the specific hardware, operating system and graphics drivers associated with the local machine

*Powered by Olea Medical. **System Health is an administrative tool and not a clinical application. ***Toshiba Infinix labs only.
Vitrea® Advanced Visualization

Integrated Applications

To provide the best tools to our customers, Vital provides partner applications integrated seamlessly into our software.*

*Check with your Vital Sales Representative or Solutions Architect for your supported applications set.
Medis® Suite Cardiovascular MR
- Medis Suite provides an efficient and flexible workflow, including QMass® Viewer with scanline views for cross referencing, caliper measurements and snapshots, and flexible reporting, including predefined texts
- CVMR Viewer
- QMass
- QFlow

Cedars-Sinai Medical Center
- Cardiac Suite
  - Quantitative Gated SPECT (QGS)
  - Quantitative Perfusion SPECT (QPS)
  - Quantitative Blood Pool SPECT (QBS)
  - Quantitative PET (QPET)
  - AutoRecon
  - MoCo (Motion Correction)

iCAD VeraLook® CT Colon CAD
- 2D and 3D fly-through visualization
- Automated identification of regions of interest (ROI)
- Bookmark CAD markings
- CAD summary panel

Mirada Oncology Fusion™
- Industry-leading comprehensive PET/CT reading platform
- Custom layouts, custom reports and hotkeys for any tool
- Software based PET/MR
- Support for Response Evaluation Criteria in Solid Tumors (RECIST), PET Response Criteria in Solid Tumors (PERCIST) and World Health Organization (WHO)
- Support for multi-timepoint gated, multi-sequence MR and multi-phase CT data
- Automatic image alignment of datasets upon load
- CT Segmentation Tool

Mirada RTx
- Multi-modal Deformable Image Registration
- Comprehensive QA tools enable assessment of Deformable Image Registration
- PET/CT and MR included in planning
- Single-click multi-atlas contouring
- Dose warping and summation
- Adaptive re-planning

TomTec Radiology Ultrasound
- Standard includes 2D, 3D and 4D viewing options, advanced vascular measurement capabilities and the 4D Sono-Scan package for general imaging and Ob/Gyn ultrasound imaging
- Cardiac Standard provides 2D review and analysis of vascular and cardiac anatomy including stress echo analysis
- Cardiac Advanced adds 3D/4D visualization options to the “Cardiac Ultrasound Standard” package

TomTec Cardiac Ultrasound
- Standard provides 2D review and analysis of vascular and cardiac anatomy including stress echo analysis
Visia™ CT Lung CAD
- Automated segmentation of the lungs and airways
- One-click Nodule Probe tool for auto-measurement of nodules
- Volume measurements
- Lung emphysema visualization preset
- Clinically validated CAD performance - proven to improve reader accuracy and efficiency

Visia™ Dynamic Review
- Automated processing and display of dynamic MRI studies
- Sophisticated 3D rigid or elastic algorithms allow for advanced motion correction
- Interactive time-intensity curves
- Flexible color overlays through on-the-fly adjustments of thresholds and time points
- MRI-optimized layouts
- Color overlays available on interactive 3D Maximum Intensity Projection, subtraction images and any oblique plane

Visia™ CT Lung CAD
- Automated segmentation of the lungs and airways
- One-click Nodule Probe tool for auto-measurement of nodules
- Volume measurements
- Lung emphysema visualization preset
- Clinically validated CAD performance - proven to improve reader accuracy and efficiency
Vital’s clinical applications contain many workflows to assist users when working on specific clinical exams. These can be used to automatically optimize the screen layout and visualization settings and perform anticipatory segmentation of the volumetric data relative to the anatomy being visualized.
The following are some of the workflows available in our clinical applications:

**CT Abdominal Analysis**
The CT Abdominal Analysis workflow visualizes the aorta in the abdomen.

**CT Aorta Analysis**
The CT Aorta Analysis workflow enables users to visualize and evaluate the aorta vasculature.

**CT Carotid**
The CT Carotid workflow enables the ability to visualize vessel structures.

**CT Circle of Willis**
The CT Circle of Willis workflow is intended to view the vascular anatomy in the Circle of Willis.

**CT Larynx Airway**
The CT Larynx Airway Analysis workflow is used for the visualization and evaluation of the larynx and airway.

**CT Musculoskeletal**
The CT Musculoskeletal workflow enables visualization of orthopedic studies.

**CT Renal**
The CT Renal workflow enables the visualization of renal anatomy using CT angiography studies.

**CT Runoff**
The CT Runoff workflow provides the ability to visualize and measure bone and vessel structures.

**CT Urogram**
The CT Urogram workflow enables the ability to evaluate the kidneys, ureters and bladder.

**MR Abdominal Analysis**
The MR Abdominal Analysis workflow provides general clinical tools and visualization settings to review and analyze MR abdominal exams.

**MR Brain Tumor**
The MR Brain Tumor workflow is intended for the analysis/quantification of tumor volumes obtained from MR brain series scans using a special 2D view in the Head MR protocol.

**MR Musculoskeletal**
The MR Musculoskeletal workflow views types of orthopedic studies with presets for optimal visualization of soft tissue and bony structures. Users may export into STL format.

**MR Vascular**
The MR Vascular workflow evaluates vascular anatomy from MR angiography studies.
Support
Vital understands that the success of your organization depends on reliable technology and minimal downtime. Our dedicated Customer Success Management program and quick response times ensure that you receive the help you need, when you need it. Our consulting services provide the technical and clinical expertise necessary to customize our solution to your environment.

Maintenance and Services
The following features are available with our Maintenance and Services contracts:

- Software Updates and Upgrades
- Rapid Response Remote Technical Support
- Access to Vital U® live Webinars
- Access to Vital U Online Library
- Standard Support Hours
- Access to Online Technical Knowledge Base
- Vital Customer Success Manager
- Hardware Support Assistance
- 24/7 Technical Support
- Proactive System Activity Review with Customer Success Manager
- Education Credits (at additional cost)
- On-site assistance for Critical Issues
When you purchase software from Vital, you receive education units per the terms of your purchase. Your Maintenance and Support agreement may include additional, automatically renewing education units. You may purchase more units any time you need them.

Vital U is Vital’s professional educational organization. Vital offers various learning opportunities for you to choose from. Because we value fostering partnerships with our customers, we tailor ongoing education programs for each organization’s size, needs and desired outcomes.

Classroom Education
For uninterrupted learning in a hands-on classroom environment, sign up for a Vital U classroom course at our headquarters in Minneapolis.

On-Site Classroom Education
On-site facility education teaches the fundamentals of Vital’s advanced visualization software.

Vital U Webinars
Our live webinars offer lecture-style instruction on the use of clinical applications. New modules are offered every week.

eLearning
Resources are available online, exactly when and where you need them. Access to our eLearning, educational courses, videos, workflows, user guides and other release-related documentation are available to customers.
Revitalize Patient Care