VITAL

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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.

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Healthcare Imaging Informatics

Product Portfolio

VITAL

Revitalize Patient Care

For more than 25 years, Vital has been a pioneer in imaging solutions. Our Vitrea family of software products help healthcare organizations deliver exceptional care, while optimizing resources across multi-facility organizations. Vitrea solutions orchestrate data, making it easily accessible throughout the enterprise and focus on providing context and clarity to the information presented at the point of care. Our solutions are scalable to meet the unique and evolving needs of your organization.

At Vital, we:

Know that people and data are constantly in motion

Believe that data must be available for
connection and interpretation

Orchestrate data in real time providing context and clarity
to understand the ever-evolving patient story

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Vital is Vitrea

Our Vitrea solutions are founded in our steadfast belief that the patient is first.

Vitrea Vision

You see your patient.
We help you see inside the body.

Vitrea Connection

You connect with your patient.
We help you connect to and understand your data in a meaningful way.

Vitrea Intelligence

You care for your patient.
We help you to better know your business to create efficiency, quantifiable value and improve the patient experience.

By the year 2025, organizations must have in place a Learning Health System as defined by the US Office of the National Coordinator.

A Learning Health System:

- makes the right data available to the right people at the right time in a way that can be relied upon and meaningfully used by recipients
- allows individuals to securely share electronic health information with care providers and make use of information to support their own health and wellness through informed, shared decision making.[1]

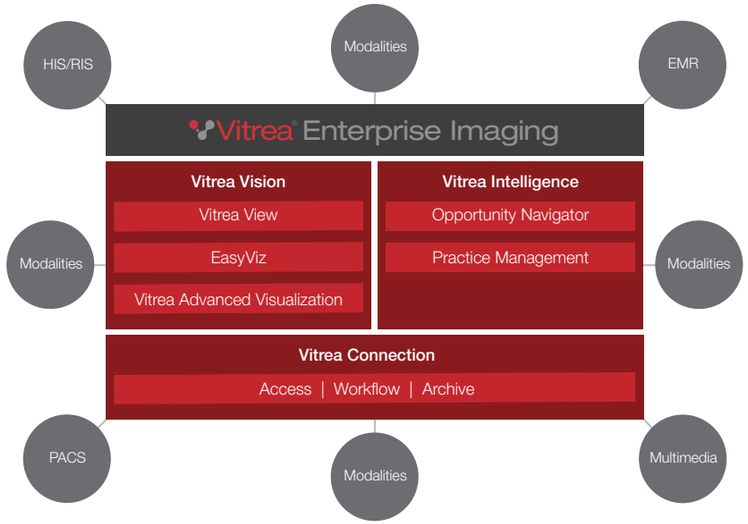
Our Vitrea solutions deliver this system today.

1 Adapted from Connecting Health and Care for the Nation A Shared Nationwide Interoperability Roadmap https://www.healthit.gov/sites/default/files/hie-interoperability/nationwide-interoperability-roadmap-final-version-1.0.pdf

A Different Approach

Our customers are valued partners. We work side by side with you to clearly identify your needs and deliver progressive, tailored solutions built upon our modular image management, workflow, visualization and resource planning platform.

Vitrea | One Modular Solution



Vital is your strong choice as a technology partner for the future because we:

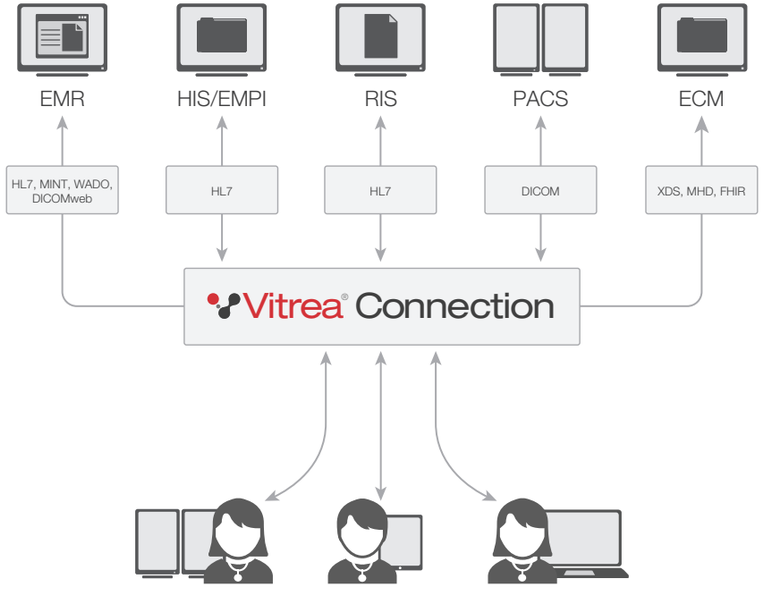
- have a patient-centric focus
- have decades of experience and knowledge in building solutions for healthcare imaging
- love to solve problems, allowing us to constantly enrich our solutions
- strive for simplicity – we take complex matters and deliver simple solutions that work
- are a Canon company with all the power and resources of a global company

We invite you to join us on our quest to revitalize patient care.

Vitrea® Connection

Our experience tells us that the patient story is never complete.

Often unseen by the clinician, Vitrea Connection is the foundation upon which our visualization and resource planning solutions excel. It is the engine that constantly renews and refreshes all the relevant information from disparate sources in real-time and seamlessly delivers it to the applications at the point of care. You stay connected to the ever-changing patient story, able to make effective decisions and improve patient care because you have the longitudinal view of the patient record.



Vitrea Connection offers a flexible, service-oriented architecture:

- Support a variety of deployment scenarios targeting multi-facility, multi-PACS environments at a departmental, enterprise, regional or national scale
- Deliver patient-centric orchestration of mulitiple data types – DICOM and non-DICOM – contained in other systems, allowing you to leverage your existing investments while immediately improving workflow and interoperability
- Facilitate a progressive migration and replacement strategy en route to a consolidated solution, avoiding costly data migrations
- Provide massive, horizontal scalability to quickly expand capacity without downtime
- Leverage industry standards to maximize interoperability
- Simplify business continuance and disaster recovery

Vitrea® Vision

Vitrea Vision is built on Vital's 25-year legacy in advanced visualization technology. We are a pioneer in this field, proudly continuing to deliver innovative imaging analysis and viewing solutions.

Through our years of experience, we have developed a modular viewing platform that can be configured to meet the unique viewing needs of all users, providing access to required images from across your enterprise anytime, anywhere.

The Vitrea Vision family of products is designed to streamline image viewing workflows, enhance collaboration, increase diagnostic accuracy and provide significant cost reduction.

Vitrea View

Inform clinicians with fast and secure access to diagnostic quality images and multi-media files.

EasyViz

Provide your radiologists with a personalized, highly contextualized diagnostic viewing experience.

Vitrea Advanced Visualization

Elevate the reading experience with embedded advanced visualization applications providing premier tools to aid in diagnosis.

Vitrea View is not intended for diagnostic use when accessed from a mobile device.

Vitrea View

Your Zero Footprint Enterprise Viewing Solution

The patient record is quickly becoming an array of multimedia images and related documents. This content is often stored in disparate systems and external media scattered across your enterprise, making it difficult for clinicians to stay informed on the current patient condition.

Vitrea View provides fast and secure access to patient imaging information – DICOM and non-DICOM – from across the enterprise and beyond. It integrates images effectively into the primary clinical workflows to improve care coordination by providing a single point of access from a browser on a desktop, laptop or mobile device. Vitrea View also image-enables your EMR, allowing image access directly from the patient record.

Benefits

Real-time access to consolidated imaging information

Single sign-on enables authorized users access to diagnostic quality images and information from across the enterprise and beyond – anytime, anywhere and on any device.

Easy to Use

Simple, intuitive design allows users to realize the full benefits of enterprise viewing with minimal training.

Collaboration that helps improve the patient experience

Point of care delivery of imaging information allows clinicians to easily share images and review results with patients.

Efficiency that helps improve patient care

Decreases repeat imaging and radiation exposure of patients because of access to relevant prior images across the enterprise.

EasyViz

Your Complete Solution for Primary Diagnosis and Reading

As the quantity and content of imaging studies surges, it presents a challenge to deliver the relevant information to the radiologist to efficiently answer the clinical question at hand.

EasyViz is designed with those challenges in mind. EasyViz provides a comfortable, organized reading experience, helping to meet the increasing demands on radiologists' time.

By supporting the radiologist with a highly flexible, personalized tool, EasyViz maximizes productivity while increasing diagnostic accuracy, helping to improve patient care.

Flexibly supports your unique workflow needs

- Multiple deployment options – thick, thin and zero footprint – allow diagnosis from local or remote environments with uncompromised image quality and performance
- Enhance the communication that supports improved patient care with real-time session collaboration, interrupted workflow and multi-disciplinary team meetings

Personalized for optimal user experience

- The customizable diagnostic toolset provides radiologists with a fast and reliable viewing experience that is consistent regardless of device or location
- Advanced hanging protocols are highly contextualized, driven by modality, body part and your individual reading preferences

Clinically advanced for improved diagnostic accuracy

- Complete 2D/3D toolset across all modalities, including mammography and fusion* expansion modules, provides single system support for subspecialty reads
- Intuitive user interface for fast and easy navigation, image interaction and manipulation
- Contextualized launch into advanced visualization applications, providing premier tools for diagnosis

Superior accessibility reduces complexity of retrieving data

- Easily integrated with existing image repositories - PACS systems and VNAs - EasyViz allows for seamless access to distributed imaging data, including intelligent management of relevant priors
- Adaptive streaming technology reduces network traffic and cost while maintaining high image reading performance and efficiency

* EasyViz Fusion is not available in the US.

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, facilitate improved clinical outcomes with powerful applications, streamlined partner integrations and clinical solutions and workflows tailored to your needs.

Vitrea Advanced Visualization Benefits

Intuitive Design
Intuitive user interface with a dark color scheme designed for viewing in the reading room

Clinical Outcomes
Helps facilitate improved clinical outcomes with powerful clinical workflows and superior partner applications seamlessly integrated into Vitrea Advanced Visualization

Improved Workflow
Increased efficiency with consistent user protocols and experience across all modalities

IT Efficiency
Easy to deploy thin client solution does not require specialized software to reside on client computers

Vitrea Advanced Visualization Deployments

Workstation

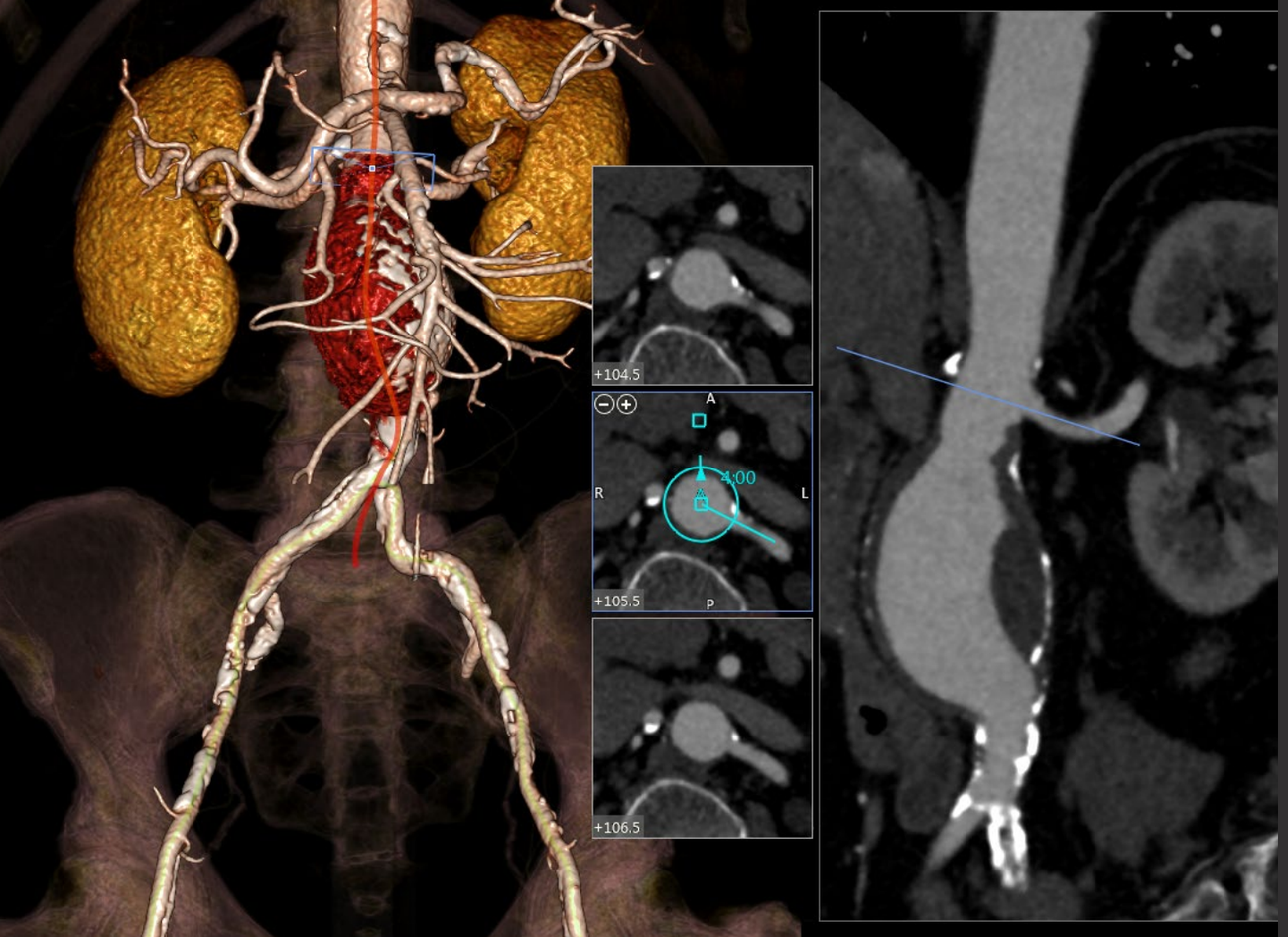
A one user, intuitive, multi-modality workstation increases productivity helping to optimize the time and resources needed to produce clinical results.

Extend

A three-user, multi-modality solution that increases your department workflow with a cost-effective alternative to enterprise integration, all with minimal IT impact.

Enterprise

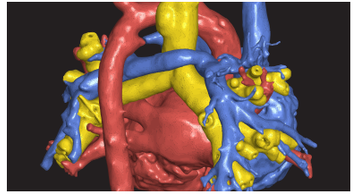
An enterprise-wide advanced visualization solution provides scalable thin client access to multi-modality clinical solutions anywhere in your medical enterprise.



Vitrea Advanced Visualization

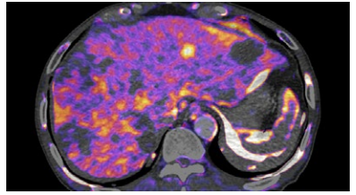
Clinical Applications

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.



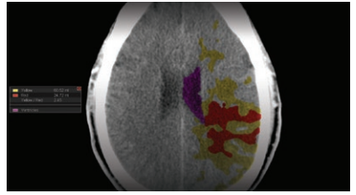
3D Printing

- 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



CT Body Perfusion 4D

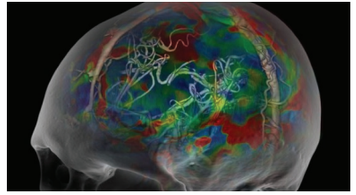
- Single-input organ workflow for display of Arterial Flow (AF) map
- Dual-input lung workflow for display of Pulmonary Flow (PF), Arterial Flow (AF) and pulmonary Perfusion Index (PI) maps
- Dual-input liver workflow for display of AF, PF and hepatic PI maps
- Deformable registration and motion correction
- Patlak Plot method for display of Arterial Flow maximum slope, Patlak Equivalent Blood Volume and Patlak Flow



CT Brain Perfusion 2D

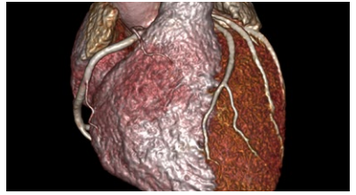
- Automatic calculation of quantitative brain perfusion results: Regional Cerebral Blood Volume (rCBV), Mean Transit Time (MTT), Regional Cerebral Blood Flow (rCBF), Time-to-Peak of tissue response curve (TTP), delay of tissue response curve
- Summary map with single view for communication of the perfusion results
- Automatic curve-fitting and motion correction

*SUREPlaque™ is a separately licensed application.



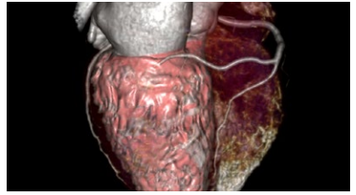
CT Brain Perfusion 4D

- 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 perfusion results
- 4D cine of the DSA view for visualizing 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



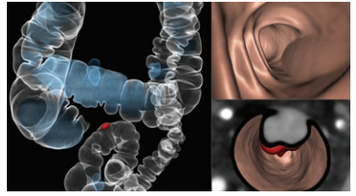
CT Cardiac Analysis

- Streamlined coronary workflow with automatic extraction of the coronary arteries and optimized viewports such as volume rendering, MIP, MPR, curved and straightened MPR views
- SUREPlaque™* tool assists clinicians in evaluating the characteristics inside blood vessels
- Full vessel probe capabilities for coronary artery analysis including the Lesion tool, Vessel Walk and Cath view
- Key findings classification for consolidated reporting of cardiac workflows



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

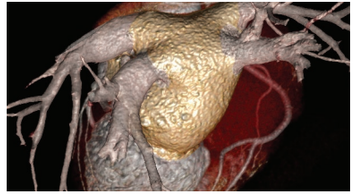


CT Colon Analysis

- 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 or anal verge
- Integrated filet view and endoluminal fly-through
- Automatic fluid/stool tagging and subtraction
- Polyp assessment and reporting using C-RADS guidelines

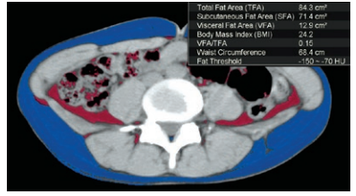
CT Endovascular Stent Planning

- 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
- Ability to export results in a STL file
- Export the 3D model to an EP navigation and mapping system (EnSite®)

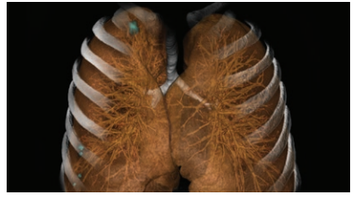


CT Fat Measurement*

- 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

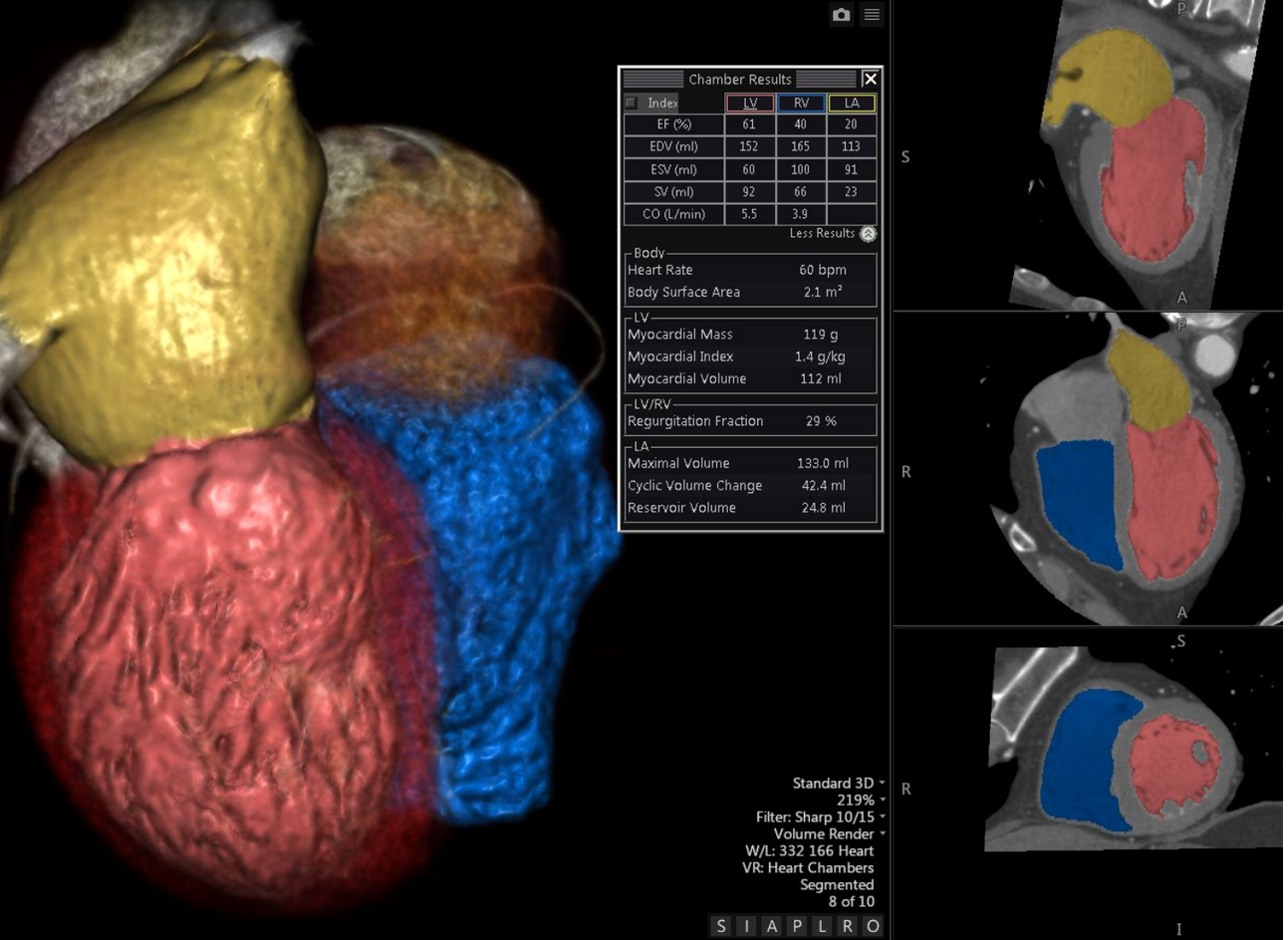
- Tumor tracking with RECIST and WHO measurements
- Single-click liver and vascular segmentation
- Single-click tumor probe with tumor margin borders viewing in 2D/3D
- Volume fusion, support for up to four timed phases. For example, arterial, venous or delayed
- Virtual resection planning

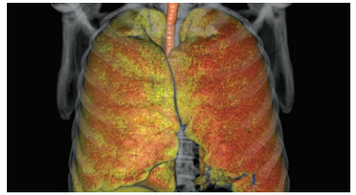


CT Lung Analysis

- Semi-automated segmentation of lung and airways
- Restore previously segmented nodules from prior studies for comparison
- Quantification of lung nodules with nodule growth and doubling times in comparison studies
- Dictation table with Lung-RADS®, Fleischner Criteria and export options to PowerScribe® 360
- 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

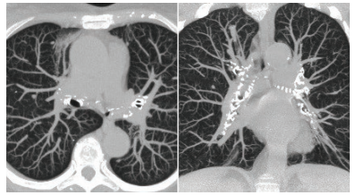
*CT Fat Measurement is only available in select countries. It is not available in the US.





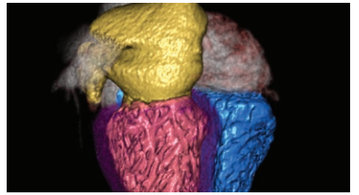
CT Lung Density Analysis

- 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*

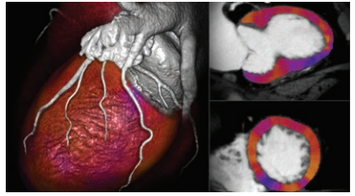
- Vitrea Advanced Visualization's flagship CT Lung Analysis application with Image Denoising
- Support of Nuance PowerScribe® 360 Reporting
- PenLung™ by RenRad unified software solution
- Integrated with Visia™ CT Lung CAD
- Custom report templates with Lung-RADS™ and ACR guideline
- Comprehensive resource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



CT Multi-Chamber CFA

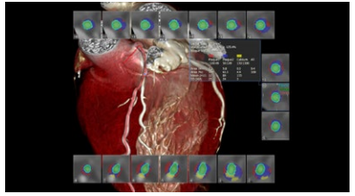
- Semi-automatic segmentation of left atrium (LA), right ventricle (RV), left ventricle (LV) and myocardium, including identification of long axis and mitral valve boundaries across multiple phases
- Automatic calculation of RV/LV End Diastolic Volume (EDV), End Systolic Volume (ESV), Stroke Volume (SV), 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

*PenLung™, Lung-RADS™, Visia™ and PowerScribe® are trademarks of their respective owners.



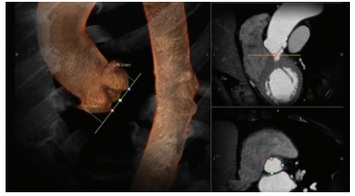
CT Myocardial Perfusion

- Semi-automatic chamber and myocardium segmentation
- Qualitative measurements, including Myocardial Mass, Myocardial Volume and Hounsfield Unit (HU) attenuation
- Polar map plots (contrast, transmural perfusion ratio, perfusion index) highlighting potential myocardium defects
- Automatic calculation of qualitative 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



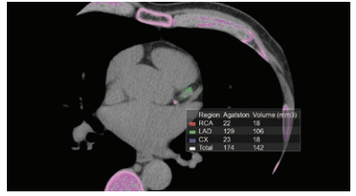
CT SUREPlaque™

- SUREPlaque tools assist clinicians in evaluating the characteristics inside blood vessels:
  - Quantify plaque burden and coronary remodelling non-invasively
  - Visualize coronary vessel anatomy and disease with ease using defined HU ranges
  - Characterize a lesion in the vessel wall as either calcified or non-calcified
- Single-click segmentation with automatic centerline and lumen boundaries
- 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



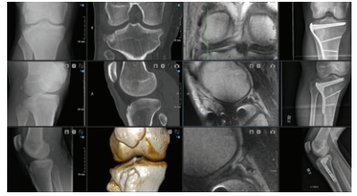
CT TAVR Planning

- Ability to load multiple volumes or series, allowing users to analyze and perform measurements in different phases of the cardiac cycle with combined reporting
- Automatic segmentation of aortic root, aortoiliac vessels with multiple viewing options including volume rendering, MIP, MPR, curved and straightened vessel MPR views
- Custom reporting templates with user guided automation assists with analysis and necessary measurements
- Three-point aortic valve plane definition
- Flexibility to enable planning for transfemoral, subclavian and transapical delivery approaches with display of C-Arm angles for device placement



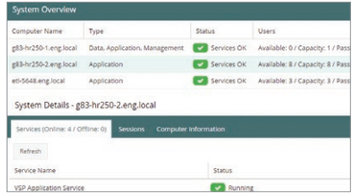
CT VScore™

- 2D and 3D visualization
- Report template autofills user selected scores and includes snapshots and graphs that can be exported
- Calculation of calcium score using Agatston, Volume or Mass
- The calcium percentile is displayed on a graph that compares the patient's calcified plaque burden to that of other asymptomatic men or women of the same age range and/or ethnic group



Multi Modality Viewer

- Intuitive presentation, navigation and manipulation of CR, CT, DX, MRI, PET, PET/CT, RG, RF and XA
- Seamless features to compare multiple series
- Ability to switch to additional integrated applications to further post-process or quantify the series
- Supports image processing for subtraction of two CT/MRI series/datasets
- Ability to access advanced applications and workflows along with semi-automated whole body image MRI stitching



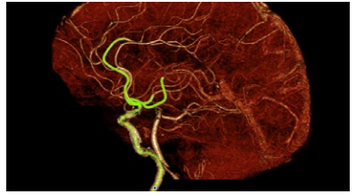
System Health*

Vitrea System Health for Vitrea Advanced Visualization 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 Advanced Visualization workstation deployment
- View the session activity and the specific hardware, operating system and graphics drivers associated with the local machine

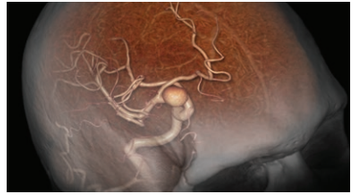
Vitrea® Image Denoising

- 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

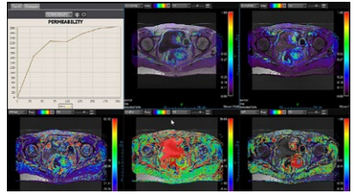
- The Vessel Probe tool creates a centerline through the vessel lumen
- Multiple Image viewing formats including orthogonal MPR (multiplanar reformatted), oblique MPR, curved MPR, 3D, and curved reformat views of the selected vessel
- Automated Stenosis Measurement tools that include single and dual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



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 is an administrative tool and not a clinical application. **Toshiba Infinix labs only.

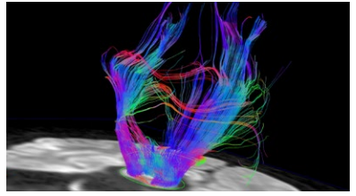


Olea MR Body Options

The MR Body options, powered by Olea Medical®, provide users with access to the latest tools and applications for Breast, Prostate and Body Imaging.

The MR Body options include the following:

- MR Body Full
- MR Breast
- MR Female Pelvis
- MR Head and Neck
- MR MSK
- MR Prostate
- MR Rectum



Olea MR Neuro Options

The Olea MR Neuro options, powered by Olea Medical, provide expert stroke post-processing options, parameters, maps and metrics incorporated into a fully automated workflow saves time. State of the art applications provide users with the latest tools and applications for neuro imaging.

The Olea MR Neuro options include the following:

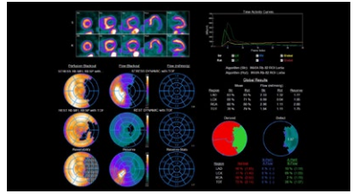
- MR Basic Stroke
- MR Neuro
- MR Neuro Full
- MR Neuro ASL

Vitrea Advanced Visualization

Integrated Applications

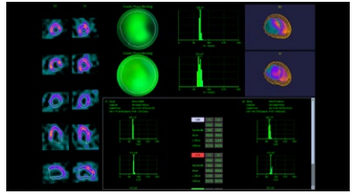
To provide the best tools to our customers, Vital provides partner applications integrated seamlessly into our software.*

*Check with your Vital Sales Representative or Solutions Architect for your supported applications set.



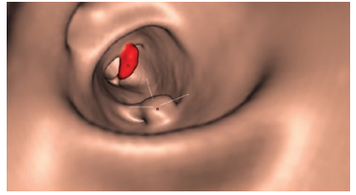
4DM by INVIA

- Delivers advanced processing algorithms, precise co-registration and reproducible quantification and image displays
- Quality assurance measures
- Intelligent workflows for greater efficiency
- The quantification of myocardial perfusion, function and viability
- Multiple review screens
- Integrated reporting with customizable templates



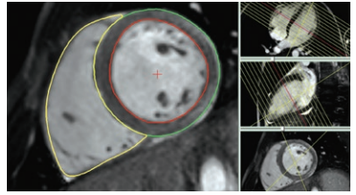
Cedars-Sinai Medical Center Cardiac Suite

- 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

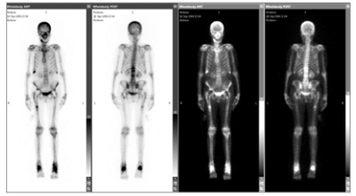
- 2D and 3D fly-through visualization
- Automated identification of regions of interest (ROI)
- Bookmark CAD markings
- CAD summary panel
- Extracts features from potential polyps based on shape, morphology, texture, contrast, brightness and other attributes



Medis® Suite Cardiovascular MR

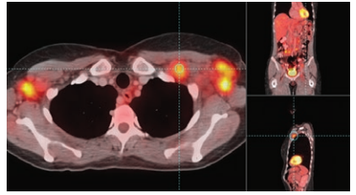
Medis Suite provides an efficient and flexible workflow, including CVMR Viewer, QMass, and QFlow.

- Scanline views for cross referencing
- Perform caliper measurements
- Take snapshots
- Flexible reporting, including predefined texts



Mirada Nuclear Medicine

- Vendor neutral software allows data from different scanners to be read using the same display format and protocols
- Unlimited number of configurable workflows for reading planar static and dynamic NM data
- Mirada Workflow Designer enables easy creation and customization of workflows
- Smart workflow rules provide data which is available within your perferred workflow throughout your institution

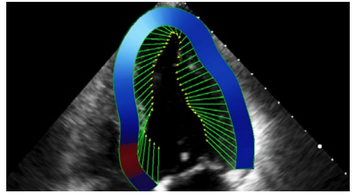


Mirada Oncology Fusion™

- 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

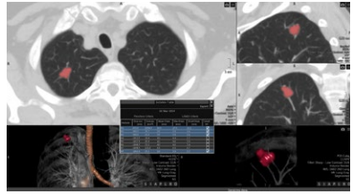
Mirada RTx

- Multi-modal deformable fusion incorporates any combination of CT, PET, PET/CT, MRI, CT Angiography and CBCT, including 4D data sets
- Multi-atlas contouring provides single-click automated contouring using an atlas or previously contoured case
- Dose deformation and summation
- Adaptive re-planning
- Mirada software works seamlessly with any treatment planning system, scanner vendor or PACS



TOMTEC®*

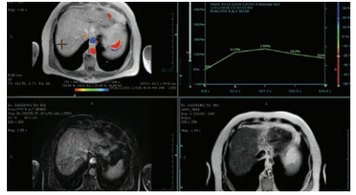
- TOMTEC Cardiology Ultrasound Basic
- TOMTEC Cardiology Ultrasound Essentials
- TOMTEC Cardiology Ultrasound Premium
- TOMTEC Cardiac Cath Complete
- TOMTEC Cardiac Echo Cath
- TOMTEC Radiology Ultrasound



Visia™ CT Lung CAD

Visia enables the detailed segmentation of anatomical pulmonary structures as well as the automatic detection of abnormalities (lung tumors, pulmonary embolism), their evaluation and quantification.

- Clinically validated CAD performance - proven to improve reader accuracy and efficiency
- Automated tracking for lung nodules in longitudinal exams
- Dictation table with Lung-RADS®, Fleischner Criteria and export options to PowerScribe® 360



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

*TOMTEC and Visia Dynamic Review are only available in version 6.x.

Vitrea Advanced Visualization

Clinical Workflows

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 customized visualization settings.

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 provides tools to visualize and evaluate the carotid and vertebral vessels.

CT Circle of Willis
The CT Circle of Willis workflow demonstrates the vascular anatomy of the intracranial vessels for possible occlusion or aneurysms.

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

CT Musculoskeletal
The CT Musculoskeletal workflow provides clinical tools and visualization of muscles, soft tissue injuries, cortical bone and joint displacement.

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

CT Runoff
The CT Runoff workflow assists in the evaluation of occlusion or focal stenosis in patients with peripheral artery diseases.

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.

MR Musculoskeletal
The MR Musculoskeletal workflow views types of orthopedic studies with presets for optimal visualization of soft tissue and bony structures.

MR Vascular
The MR Vascular workflow evaluates vascular anatomy from MR angiography studies.

Olea Pulse

Olea Pulse is a fully automated CT/MRI post-processing application that streamlines acute stroke patient protocols.

Key Benefits

- Instant volumetric estimation of infarct and penumbra
- Automated multi-volume computation
- Dynamic thresholding perfusion maps to visually assess hypoperfused area
- Automatic and instant report delivery by email to key physicians

Key Features

- Olea Pulse is not a black box. It can access all post-processing steps and modify parameters from anywhere, at any time.
- Vendor neutral and easy integration into IT systems
- Automated and customizable stroke report

Olea Pulse is powered by Olea Medical and is available for sale in Canada, Asia Pacific and the US.

Vitrea Intelligence

Improve Your Imaging Practice with Real-time Business Intelligence

Imaging businesses recognize the need to hold the line on costs and realize greater business efficiencies. As a healthcare business leader, real-time access to the financial, clinical and operational data you need remains a challenge with data locked into proprietary systems across the enterprise. What the business side of healthcare must do is evolve, in lockstep with its provider partners, to a model of evidence-based management, using real-time business intelligence.

Vitrea Intelligence's suite of applications helps imaging leaders run their businesses more efficiently and profitably while ensuring the delivery of quality patient care.

Practice Management

The Practice Management module makes running your imaging business easier by allowing you to make informed business decisions. We reveal the information you need to strategically manage your organization, as well as your referring physician base, and help you enhance your exam revenue stream.

Operational Benefits

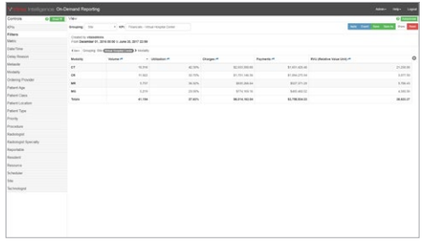
- Manage your entire organization
- Gain an integrated view into operational, financial, and clinical data in real time
- Obtain access to critical data

Clinical Benefits

- Manage and optimize modality throughput
- Search clincial reports by keyword
- Visualize patient waits in real-time
- Better manage sites, departments, and resources
- Leverage KPIs to propagate best practices

IT Benefits

- Enable easy end-user interaction with data visualization
- Free your IT resources from report generation tasks with user access to data
- Leverage standard communication protocols such as HL7 and DICOM
- Support enterprise data warehouse integration
- Acquire a scalable solution that grows with your organization



Understand Your Business with ‘On Demand Reporting’

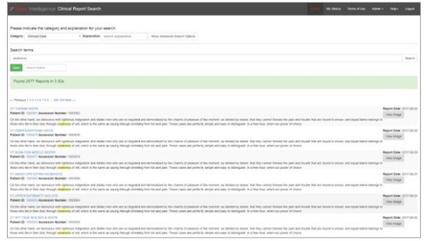
- Manage your entire organization
- View operational, financial and clinical data
- Enable self-service access to critical information
- Interact with your data using drill-down filters

Manage Business Performance with a ‘Key Performance Indicator (KPI) Dashboard’

- Manage sites, departments and resources
- Intuitively view focused performance metrics
- Build user configurable KPI’s using simple filters
- Share KPI’s with others to propagate best practices

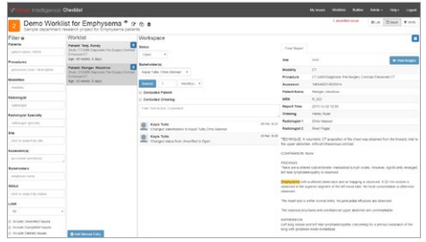
Visualize Patient Modality Throughput with ‘Scanner Utilization’

- Manage and optimize modality throughput
- Visualize patient waits in real-time
- Define and monitor custom resource groups
- View current or past equipment usage patterns



Improve Quality of Care with ‘Clinical Report Search’

- Search all clinical reports by keywords
- Use advanced search options to filter results
- Save and reuse common searches
- Export search results to .xls files



Track recommendations for follow-up with ‘Checklist’

- Automatically identify recommendations made by radiologists in diagnostic reports
- Create checklists for appropriate follow-up
- Document communication and workflow steps for quality process improvements
- Create cohort analysis for improved discovery and communication

Opportunity Navigator

Improve Your Imaging Practice's Financial Performance with Predictive Financial Analytics

Running a profitable imaging business in today's complex healthcare environment can be challenging. Adjusting to the demands of value-based reimbursement models and declining margins calls for a data-driven approach to managing your bottom-line.

Existing analytics products present historical data to users and help them visualize information to infer future trends and make corresponding business decisions. Opportunity Navigator goes further by combining your operational and financial data and then presenting a menu of financial "opportunities" that might be realized by taking specific actions to increase revenues or avoid costs.

Operational benefits

- Proactively identify revenue and cost saving opportunities
- Receive customized data to support achieving revenue targets
- Gain access to operational and financial data
- Analyze resources affecting business performance

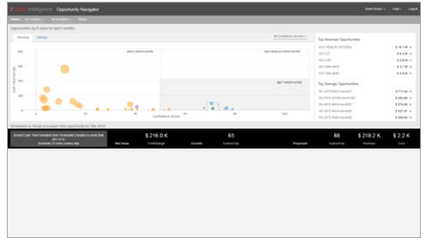
Clinical benefits

- Manage and optimize modality throughput
- Reduce variation in exam performance
- Identify opportunities to standardize clinical workflow
- Improve operations associated with specific ICD-10 diagnostic codes

IT benefits

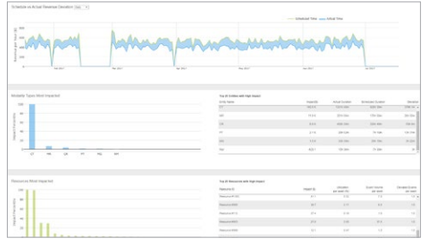
- Enable easy end-user interaction with data visualization
- Gain access to data and free IT resources from report generation tasks
- Leverage standard communications protocols such as HL7 and DICOM
- Support enterprise data warehouse integration
- Acquire a scalable solution that grows with your organization

Opportunity Navigator recommends specific actions to take towards achieving financial objectives and provides actionable information to help you get there.



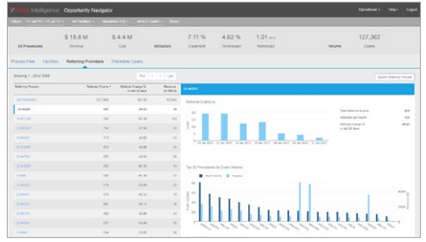
Identify financial opportunities with the ‘Smart Board’

- View proposed revenue and savings opportunities
- Receive prescriptive recommendations on how to achieve proposed financial opportunities
- Rank and classify financial opportunities automatically
- View financial impact of each opportunity



Achieve financial targets using ‘Actionable Information’

- View actionable information associated with each opportunity
- Support management decisions with evidence-based, customized data
- Drill-down into operational details
- Obtain configurable fixed expense and equipment depreciation details for computing costs



Optimize business performance with the ‘Operational Dashboard’

- Manage exam process flows to optimize modality throughput
- View operational metrics affecting financial performance by facility
- Manage referring providers’ exam pipeline
- Discover and optimize business performance metrics sorted by specific procedures

Plan for the future using the ‘Projection Dashboard’

- Compare current vs projected future performance
- Examine revenue and cost of procedures
- View profitability projections
- Project exam volume and equipment utilization trends

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 product 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

Vital U® Education

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