





www.terarecon.com

# **Turning Medical Imaging Into Great Medicine**

## True Vendor Neutrality for Your Enterprise Imaging Strategy

### The Power of Automation

Automate complex image post-processing to deliver a better starting point for your physicians and 3D lab professionals

### **Consolidate And Save**

Invest in a solution that not only meets the visualization needs of more than one department but can eliminate costly redundant solutions. Possibly even fund your new Intuition investment.

### **Relentless Innovation**

TeraRecon continually innovates to bring to the industry the latest in advanced visualization capabilities, including newly available dual-monitor support, new brain CT perfusion maps, a glow rendering power that delivers photo-realistic rendering of 3D structures, and features that enable the adoption and creation of AI algorithms.

### High Physician Satisfaction And Easy To Buy

Now with subscription-based purchasing for maximum budget flexibility and easy access to the most comprehensive library of best-in-KLAS clinical workflow templates.

## **Optimal Outcomes Begin with a Better Starting Point**

Intuition is the market's leading advanced visualization solution on or off your PACS, in the surgical suite, or even at the patient's bedside. With enterprise scalability and interoperability, AI-enhanced clinical workflows, and productivity-boosting collaboration tools, Intuition gives physicians the edge to deliver precise and timely diagnostic interpretations.

Intuition advanced visualization solutions offer NEW enhanced capabilities to standardize and optimize measurement workflows. For example, today's Intuition solution provides enhanced flexibility for editing your segmented contours. Additionally, your clinicians can now stay inside their 1x1 view and remain efficient and effective by performing measurements with G-tool for small windows. Applying these convenient and automated capabilities for procedure plans and complex workflows gives clinicians the freedom to focus their time on validation and care delivery.









# INTUITION 4.7 ADVANCED VISUALIZATION

## What's New

Introducing the latest advancements in medical imaging with the new Intuition 4.7 update. This comprehensive upgrade brings you a suite of cutting-edge features designed to optimize your workflow, improve security, and enhance your diagnostic capabilities.

The Structural Heart Workflow has been updated with new TMVR and LAA functionality. TMVR editing features have been enhanced, allowing users to edit mitral valve details and copy them to all phases. The update also includes Mitral Valve Calcium Score improvements, 3 Landmark Tool enhancements, and the ability to rotate the axis while the "Triangulation Tool" is on. Moreover, a new LAA workflow has been added in Structural Heart, featuring preference settings, packaged .stl files for multiple devices, and a simplified report.

Calcium Score Enhancements ensure that each lesion will have its score, volume, and mean, and can be tracked serially to obtain an updated total. Summation has been added for each segment of all lesions in the segment of the vessel. The Measurement Tab now supports sorting in any order you want or alphabetically.

Al Support Enhancements feature containerized Al algorithms on the APS, allowing for the display of AI results within Intuition. Integration with Eureka AI enables the triggering of AI on a study to view the AI results inside of Intuition. The update also supports Dockers on APS and the ability to view GSPS results on Intuition (2D viewer) ...

Auto TAVR and EVAR Enhancements have been introduced, 4D Beating Heart Enhancements modify the 4D Cine performance to be more comparable to AQNET Thin Client (12fps to 30fps).

The 3 Landmark Tool update allows users to change the color of labels and landmarks and place markers off other views. CPR enhancements include a CPR dropdown (pick list) and the ability to turn on and off centerlines and change their colors.

STL Enhancements offer the ability to align to valve plane, tilt, and flip, while Glow Rendering now features automated lighting settings and simplified Glow settings. Finally, the update also addresses Virtual Colon Stool Removal Fixes, improving the existing algorithm's performance on data.

Upgrade to Intuition 4.7 today and unlock the full potential of your medical imaging workflow with these powerful new features and enhancements.





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PAPV	Rib Labeling									Vessel2
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## **Intelligent Automation at Every Step**

### **Prioritizing the Physician Experience**

The speed and ease with which studies are interpreted are determined mainly by the clinical workflow of the systems used. TeraRecon's Intuition advanced visualization is designed to orchestrate an intuitive and convenient step-by-step encounter with customizable templates to deliver structured workflows and intelligent automation at each step.

### An AI-Powered Advanced Visualization Experience\*

Unlock new workflow potential with the Data Adaptor, enabling AI outputs to become a seamless part of your Intuition clinical workflows. View available AI inputs from one or multiple algorithms automatically and in clinical context into a single integrated Intuition-based 3D and 2D interpretation experience.

### **Specialty Care Activation and Coordination**

Leverage a growing library of optimized specialty clinical workflows for addressing some of the most challenging patient care scenarios. With diagnostic images as a starting point, discover previously unrealized care-path efficiencies for radiology, cardiology, neurology, vascular surgery, pulmonology, and beyond.

### **Create and Train Your Own Algorithms**

Quickly convert Intuition post-processed data – completed in the ordinary course of interpretation - into volumetric, high-fidelity labeled data sets using Data Extractor. This data can be further optimized by leveraging Intuition as a powerful, clinical-quality data labeler for data scientists to create and train algorithms

## Why Intuition?



## **Ready for Structural Heart and Vascular**

Structural heart and vascular program-ready, including Cardiac CT, Head & Neck CT, TAVR, TMVR, LAA and EVAR.

### **Undisputed High Performance**

Includes the performance and quality (VM) of CUDA GPUs, including 4-20X faster image processing vs. VolumePro

### **Full Intuition Clinical Tools**

TeraRecon serves the needs of image-driven physicians across your entire enterprise, including radiology, cardiology, vascular surgery, neurology, and pulmonology.

### **AI-Powered Physician Assist**

Through the power of a true open AI ecosystem, Eureka AI allows health systems to augment their current work with AI. Effortlessly include ready-to-run AI content into your clinical practices.

### **AI Development & Adoption Tools**



### Easy to Invest



\*Sold separately

An annual subscription-based purchase for maximum budget flexibility. Eliminate annual service renewals, while taking advantage of one simple annual charge.

Trusted by nearly 1500 health sites globally, Intuition ensures your clinical experience is seamless and your purchasing power is maximized. It's no secret that TeraRecon introduced the first truly scalable and impressively intuitive solutions. That commitment to innovation continues to bring new clinical functionality and Al-driven specialty physician workflows, extending advanced visualization while covering a broad spectrum of clinical, data science, and workflow interoperability needs throughout your organization.

\*Sold separately



Intuition and Eureka work together to provide an in-house AI capability that allows internally developed AI technology to be productized and operationalized

# **Advanced And Complete**

TeraRecon serves the needs of image-driven physicians across your entire enterprise, including radiology, cardiology, vascular surgery, neurology, and pulmonology. Intuition is also capable of extending your current patient services. Intuition can support the development of a Structural Heart program in your organization with TAVR and TMVR, as well as Vascular programs such as EVAR.



### **General Workflows**

#### Autobatch

- 2D batch output reformation of image data into alternative planes.
- Create a derived series with any number of images, FOV, slab thickness, slice spacing and rendering mode including MIP

#### Autoworkflow

- · Automated and customizable workflow steps
- · Simultaneously work on additional studies
- Tailored workflows with command functions for automated measurements and image manipulation

#### **igentle**

- Noise reduction management
- · Improve the effectiveness of 3D image quality
- Improve contouring, segmentation features, and centerline accuracy.

#### **Volumetric Navigation**

- For 2D, 3D and 4D viewing
- Anatomy segmentation and volume analysis
- Configurable workflow creation
- Comprehensive and robust measurement tools
- Image batching and report generation
- · Comparison views for follow-up patient review

#### Musculoskeletal

- Rib Workflow
- Vertebral Labeling Workflow
- TT-TG and Cobb Angles
- Maxillo-Facial

## Pulmonology

### Chest CT

- Automated lung segmentation
- Lung volume and histogram analysis
- Sphere-like structure identification
- Comparative tracking-over-time options
- Virtual flythrough
- Rib Labeling

#### Lung Density Analysis II

- Lung and trachea segmentation
- · Achieve faster and better-informed care
- · Strengthen clinical decision making
- Increase confidence

#### Lung Segmentation

- Lung and trachea segmentation
- · Lung and lobe volumetric analysis
- · Lung, airway and vessel anatomical fusion
- Treatment planning simulation
- Low attenuation

### Neurology

#### CT Head & Neck

- Time density evaluation: maps include CBF, CBV, MTT, TTP
- Automatic centerline identification simplifies
- stenosis measurements
- Dual-source data support
- NASCET Criteria

#### **Neuro Perfusion**

- Time density evaluation: maps include CBF, CBV, MTT, TTP, Tmax, hypoperfusion, mismatch and more.
- Multi-modality image fusion and image subtraction

## Cardiology

#### Cardiac CT

- Cardiac structure segmentation and functional analysis
- Automated centerline creation and vessel segmentation
- · Calcium scoring with multiple database options
- Atrium and pulmonary vein analysis for EP planning
- Pre-operative evaluation of coronary arteries for plaque and stenosis
- Embedded geometry for pre-operative virtual stent evaluation

#### MR Cardiac

- Volumetric analysis of ejection fraction
- · LV/RV inner and outer contour detection
- TI Mapping, T2/T2\* Mapping
- · AHA17-segment-model
- MR flow analysis
- MR cardiac perfusion

#### TAVR Workflow

- Aortic root segmentation and orientation
- Centerline pre-processing and extractions
- User-definable planning template
- Report output
- Automatic Measurement Protocols

#### Mitral Valve (TMVR) Workflow

- Guided TMVR workflow
- · Optimized cardiac orientations for the mitral valve
- 2, 3, and 4 chamber view as well as oblique mitral valve view
- Key measurements include trigon-to-trigon distance (TT), septal-to-lateral (SL) distance, intercommissural (IC) distance measurements
- · Saddle-shape or D-shape options
- · Aortomitral angle measurement
- Embedded geometry with percent or mm offset
- · Automatic Neo-LVOT centerline and measurements
- Summary page displays key results and images

#### Left Atrial Appendage (LAA) Workflow

- Guided LAA workflow
- Optimized cardiac orientations for the LAA
- Key measurements include landing zone, wall depth, ostium, c-arm angle, and compression measurements
- Embedded device simulation with compression
  percentage
- · Fluoroscopy view with measurements and device
- LAA report with measurements and captured images



## Vascular Surgery

#### EVAR Workflow

- Pre-generated centerlines
- User-definable planning template
- · Diameter vs. distance and cross-sectional views
- Straightened view, diameter and length measurements
- Embedded vendor-specific report templates

#### Interventional Radiology

- · Centerline analysis tools
- Stent-graft planning
- Curved planar reformation
- · Analysis and follow-up tools
- Perspective flythrough

## **Body Imaging/Oncology**

#### CT Body

- Organ volume and histogram output
- Dynamic data support
- Sphere-like structure identification
- Dynamic image filtering
- Dual-source data support
- Colon flythrough

#### MR Body

- · 2D, 3D, 4D MR image sequencing
- MIP and MRA evaluation with centerline tools
- Analysis and follow-up tools
- Time-intensity ROI analysis
- Parametric mapping of body parts such as breast or prostate
- Kinetics, time-to-peak, time to the enhancement
  and maximum slope evaluation

#### **Body Fusion**

- Registration fusion
- Subtraction
- CT, MR, PET, SPECT
- Motion-correction
- Min, max, mean, standard deviation, standard uptake values (SUV)
- Findings viewer and follow-up

#### Liver Segmentation

- Semi-automated liver segmentation
- · Vascular classification options
- Multi-cut option for pre-surgical planning
- Dynamic image filtering with
- Configurable filtering strengths

## **End-To-End Al**

The challenge for organizations today is not how to purchase AI technology but how to help physicians trust in the findings and accept AI into their everyday workflows. TeraRecon has committed itself to delivering AI-enhanced insights directly and interactively into the systems clinicians use every day while consistently accounting for the physician's belief system. The result? A first-of-its-kind AI platform that enables a developer ecosystem, end-to-end interoperability at the point of care, and an interactive user experience that will lay the foundation for building physician trust.



Eureka AI is a unique and patent-protected platform, combining a clinically enriched vendoragnostic AI platform with the Eureka AI Results Explorer for an interactive and physiciancontrolled user experience. And now, with access to Data Adapter and Data Extractor, the development and adoption of clinical AI have never been easier.

## **How To Buy**

Our complete multi-specialty body packages make it easy to select the clinical functionality you need. And now with Alreadiness built right in, more capabilities mean more value to your clinicians and patients.

	Titanium Essentials	Titanium
Auto Measurement	•	•
Volumetric Navigation	•	•
CT Cardiac	•	•
EVAR Workflow	•	•
TAVR Workflow	•	•
Body Fusion	•	•
2D Analysis <sup>1</sup>	•	•
CT Head & Neck	•	•
CT Chest	٠	٠
CT Body	•	•
Interventional Radiology	٠	٠
MR Body	•	٠
Maxillo-Facial	•	٠
Updated Calcium Scoring	•	•
Trigger Al	٠	٠
Flythrough	•	•
Glow Rendering	٠	٠
Neuro Perfusion Workflow <sup>2</sup>		•
MR Cardiac		•
Lung Segmentation		•
Liver Segmentation		•
Autobatch		•
IGENTLE		•
Mitral Valve (TMVR) Workflow <sup>+</sup>		•
LAA Workflow		•
Lung Density Analysis II		•
Rib Labeling		•
Data Extractor <sup>3</sup>		•
Data Adaptor		•
Lung Density Analysis II		•
1. Now includes GSPS support		
2. Neuro Perfusion Workflow maps a add-on	vailable once the license l	has been added; license
3. Data Extractor sold separately		
+ All offerings are subject to availabi	lity and regulatory clearar	ce which may yary by



country. Please verify product statues with your local TeraRecon representative.

## **Deep Dive Into Our Packages**



#### **2D Analysis**

- 2D workflow, tools, and measurements
- Available within the 2D workflow or when evaluating 2D images anywhere in Intuition.





#### Autobatch

- 2D batch output reformation of image data into alternative planes
- Create a derived series with any number of images, FOV, slab thickness, slice spacing and rendering mode including MIP.





### **Body Fusion**

- Registration fusion
- Subtraction
- CT, MR, PET, SPECT
- Motion-correction
- Min, max, mean, standard deviation, standard uptake values (SUV)
- Findings viewer and follow-up

#### CT Body

- Registration fusion
- Subtraction
- CT, MR, PET, SPECT
- Motion-correction
- Min, max, mean, standard deviation, standard uptake values (SUV)
- Findings viewer and follow-up

Experience the practicality and precision of TeraRecon's 2D Analysis solution, designed to integrate seamlessly within the Intuition platform. The 2D Analysis solution offers an array of tools and measurements, specifically tailored for evaluating 2D images within the dedicated 2D workflow or while analyzing 2D images anywhere in Intuition.

This efficient and reliable solution simplifies the diagnostic process, enhancing workflow and providing accurate results for greater diagnostic confidence. With its intuitive design, the 2D Analysis solution ensures streamlined integration with the Intuition platform, making it an essential tool for medical professionals seeking improved performance and productivity.

Autobatch utilizes Aquarius APS to provide users with an advanced pre-processing engine that is designed to give a 2D batch output— enabling the reformation of image data into alternative planes or the creation of movies. The system can be configured to create a derived series with any number of images, along with adjustable field of view, slab thickness, slice spacing, and rendering modes, including MIP. Processed images will be appended as additional series to the original studies.

Body Fusion supports volume registration and fusion—aligning and comparing 2D and 3D images from two or more CT, MR, PET, or SPECT data sets for anatomical reference and quantitative study. Automatic registration and motion correction are provided. Additionally, Intuition generates the subtraction to a third series. Validated findings can be stored for the comparison of multiple time points. Comprehensive tools enable the user to describe regions of interest (planar or volumetric) for which various statistical quantities can be obtained, such as min, max, mean, standard deviation, standard uptake values (SUV) counts readout for PET data, etc. User-friendly manual registration tools are also available for registering different image sets together. Included findings workflow can store captured values for side-by-side comparison of multiple time points.

CT Body allows Radiologists to perform a comprehensive review and analysis of the abdomen and pelvis region organs. Additionally, this package enables Radiologists to calculate the volume of organs or regions of interest with histogram output, and utilize exportable measurement values for follow-up comparison. The CT Body Package also provides the ability to analyze dynamic data to support the assessment of time-dependent behavior of the image intensity or density of anatomy. Validated findings can be stored for the comparison of multiple time points. Full function colon flythrough includes automatic multi-volume side-by-side loading and viewing, fly-path creation and editing, and AquariusAPS sphere finder for sphere-like structure identification. Dynamic image filtering with configurable filtering strengths can be engaged to improve image guality from -dose scanning techniques. Data from dual-source scans (i.e. Dual Energy) are also supported to provide dynamic blending, improving signal-to-noise ratios, and subtracting high-density structures, such as bone and metal.



### **Deep Dive Into Our Packages**







### **CT Cardiac**

- Cardiac structure segmentation and functional analysis
- Automated centerline creation and vessel segmentation
- Calcium scoring with multiple database options
- Atrium and pulmonary vein analysis for EP planning
- Pre-operative evaluation of coronary arteries for plaque and stenosis
- Embedded geometry for pre-operative virtual stent evaluation

### CT Chest

- Automated lung segmentation
- Lung volume and histogram analysis
- Sphere-like structure identification
- Comparative tracking-over-time options
- Virtual flythrough
- Rib Labeling

### **CT Head & Neck**

- Automatic centerline identification simplifies stenosis measurements
- Dual source data support
- Time density evaluation: maps include CBF, CBV, MTT,
  TTP, Tmax, hypoperfusion, mismatch and more.
- Multi-modality image fusion and image subtraction



### Data Adaptor

- Allows ingestion of AI inputs from multiple algorithms
- Delivers advanced starting point for clinical users
- Seamlessly integrates with Intuition workflow
- Compatible with premium 1st, 2nd, or 3rd party Al algorithms

CT Cardiac provides a simplified approach to complex cardiac analysis and quantification, enabling a radiologist or cardiologist to analyze coronary vessels with zero-click centerline creation and extraction. Vascular evaluation tools include plaque and soft plaque, stenosis, curvature, tortuosity, and more. The Calcium Scoring measurement of Agatson score, volume, mean mass (mg) is also supported. In addition, the polar map from LV and RV ejection fraction can be merged with coronary marks for territory mapping of affected AHA 17 segments for heart function evaluation.

CT Chest provides pre-generated lung segmentation for lung volume measurements with volume histogram output. When image noise is a concern, dynamic image filtering with configurable filtering strengths can be engaged to improve reading efficiency. The AquariusAPS sphericity index is designed to help physicians identify and manage sphere-like structures. Validated findings can be stored for the comparison of multiple time points. Virtual flythrough guides you to visualize the airway tree to evaluate patients with a variety of airway pathologies.

CT Head and Neck Package tools facilitate bone and vessel removal with advanced editing to support vasculature analysis including stenosis ratio, area, diameter, Min, Max, Mean, or perimeter cross-section display. In addition, radiologists can calculate the volume of organs or regions of interest with histogram output and utilize exportable measurement values for followup comparison. It also provides the ability to analyze dynamic data to support the assessment of time-dependent behavior of the image intensity or density of the brain including CBF, CBV, MTT, TTP, Tmax, hypoperfusion, mismatch and more. Data from dual-source scans are also supported to provide dynamic blending, improve signal-to-noise ratios, and subtract high density structures such as bone and metal. Image fusion for cross-planar image synchronization with customizable vendor-specific map type color scales is also supported. Intuition AI Adaptor enables the clinical users to experience the best of premium 1st, 2nd, or 3rd

Intuition AI Adaptor enables the clinical users to experience the best of premium 1st, 2nd, or 3rd party AI algorithms directly within your Intuition workflow. Included in the Intuition Titanium suite, AI Adaptor drives communication between your existing Intuition system and the Eureka AI platform to ingest available AI inputs from one or multiple algorithms to deliver an advanced starting point with near zero-click user experience.









- Unlocks segmentation data potential
- DicomSeg and RtStruct extraction efficiency
- Data transformation for enhanced compatibility
- Expanded data usability across platforms
- Streamlines system integration
- Facilitates interoperability

### EVAR Workflow

- Pre-generated centerlines
- User-definable planning template
- Diameter vs. distance and cross-sectional views
- · Straightened view, diameter and length measurements
- Embedded vendor-specific report templates

### **Glow Rendering**

- Photo-realistic 3D visualization
- High-quality structure rendering



#### **iGENTLE**

- Noise reduction management
- Improve the effectiveness of 3D image quality
- Improve contouring, segmentation features, and centerline accuracy.

### Interventional Radiology

- Centerline analysis tools
- Stent-graft planning
- Curved planar reformation
- Analysis and follow-up tools
- Perspective flythrough

Data Extractor is a useful function designed to unlock the potential of your segmentation data. It efficiently extracts DicomSeg and RtStruct data from Intuition, transforming it into a format that can be readily utilized by other systems. This process not only expands the usability of your data but also ensures seamless integration with various platforms. With Data Extractor, interoperability is at your fingertips, making the transition of valuable segmentation information effortless and efficient.

EVAR provides features including an advanced measurement protocol option, a userdefinable planning template with report output and embedded instructions. Other features include AquariusAPS pre-processed centerline extraction, straightened view, diameter, length measurements, and CPR and axial renderings. In addition, it allows for display of the diameter, distance, perimeter, cross-sectional views of vessels, and exportation of tabulated measurements. By following guided instructions, the user can complete stent-graft planning and generate reports for vendor-specific templates.

Elevate your 3D visualization capabilities with TeraRecon's Glow Rendering solution, designed to deliver photo-realistic renderings of intricate 3D structures. Our advanced rendering technology transforms complex medical data into stunning, high-quality visualizations, allowing medical professionals to better understand and interpret anatomical details.

iGentle provides advanced enhancement & noise reduction management with low dose CT exam images rendered using the APS server. TeraRecon created the iGENTLE package to reduce the effects of image noise upon 3D rendering and manipulation tools supported by the software. Such images are used internally by the software to improve the performance of the tools used by Radiologists. They are not offered as any kind of substitute for the original image, however, an optional iGENTLE- filtered series can be created for viewing in addition to the original data. iGENTLE applies image filtering algorithms that help reduce image noise and improve the 3D image quality, centerline accuracy, contouring and segmentation features used within the system. As a result, the tools speed in attaining the user's image processing goals, even when source image quality is sub-optimal.

Interventional Radiology provides an extensive range of patented Intuition clinical and workflow tools for Interventional Radiologists to perform comprehensive patient analysis— including vessel stenosis calculations, aneurysm evaluation, and planning capabilities. Zero-click preprocessed vessel centerlines maximize user productivity. Key features include Curved Planar Reformation (CPR), Straight MPR views (sMPR), Medial Axis Reformation (MAR) and perspective flythrough for endoluminal evaluation.





### Left Atrial Appendage (LAA) Workflow\*

- Guided LAA workflow
- Optimized cardiac orientations for the LAA
- Key measurements include landing zone, wall depth, ostium, c-arm angle, and compression measurements
- Embedded device simulation with compression percentage
- Fluoroscopy view with measurements and device
- LAA report with measurements and captured images









#### **Liver Segmentation**

- Semi-automated liver segmentation
- Vascular classification options
- Multi-cut option for pre-surgical planning
- Dynamic image filtering with
- Configurable filtering strengths

### Lung Density Analysis II

- Lung and trachea segmentation
- · Achieve faster and better-informed care
- Strengthen clinical decision making
- Increase confidence

#### Lung Segmentation

- Lung and trachea segmentation
- Lung and lobe volumetric analysis
- · Lung, airway and vessel anatomical fusion
- Treatment planning simulation
- Low attenuation

### **Maxillo-Facial**

- Panoramic projection
- Cross-sectional multi-planar reconstruction
- Definable mandibular groove path

The Left Atrial Appendage (LAA) Workflow Solution by TeraRecon revolutionizes cardiac treatment by seamlessly streamlining the entire LAA procedure. Our user-friendly, guided LAA workflow ensures a smooth and efficient process for optimal patient outcomes. Utilizing cutting-edge technology, the system generates optimized cardiac orientations for the LAA, guaranteeing accurate visualization and assessment. Comprehensive key measurements, including landing zone, wall depth, ostium, c-arm angle, and compression measurements, are provided to enhance procedural success. Embedded device simulation with compression percentage offers invaluable insights for informed decision-making. The fluoroscopy view with measurements and device enables real-time adjustments and monitoring, while the LAA report with measurements and captured images serves as a valuable resource for post-procedure analysis and documentation.

Liver Segmentation provides an extensive range of patented Intuition clinical and workflow tools for specialists using CT scanning for organ analysis and quantification. This package offers semiautomated liver segmentation, lesion definition with volume measurement, classification of the vasculature, and vascular centerline distance measurements for invasive treatments. The userfriendly workflow guides the user through fine-tuning segmentation both semi-automatically and manually. Display of lesion-to-vascular relationship and lobular segmentation with a multicut option for pre-surgical planning is also supported.

Intuition's Lung Density Analysis II workflow delivers enhanced segmentation data science and automated measurement capabilities within a guided workflow for the disease progression assessment and quantification of lung related illness.

Lung Segmentation provides an extensive range of clinical and workflow tools for Thoracic and Pulmonary specialists to quantify lung volumes. This package includes lobar segmentation with volume calculations, AquariusAPS sphericity index to automate lung and trachea segmentation, and low attenuation segmentation with user-configurable range values. TeraRecon's Intuition Solution Clinical Packages include Intuition and AquariusAPS. In addition, the included findings feature can provide a side-by-side comparison of multiple time points, doubling time display.

Maxillo-Facial provides an extensive range of patented clinical and workflow tools to display and manipulate dental images to support the analysis and visualization of volumetric CT datasets of the Maxillo-facial region. The Maxillo-Facial Package applies the curved planar reformation (CPR) result to generate "panoramic" projections in various planes and thicknesses. Cross-sectional multi-planar reconstruction (MPR) may also be generated at set increments along the defined curve plane and used to obtain key measurements to aid dental implant and surgical planning. In addition, the mandibular groove path can be displayed as an overlay to improve visualization of critical anatomy.

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### MR Body

- 2D, 3D, 4D MR image sequencing
- MIP and MRA evaluation with centerline tools
- Analysis and follow-up tools
- Time-intensity ROI analysis
- Parametric mapping of body parts such as breast or prostate
- Kinetics, time-to-peak, time to the enhancement and maximum slope evaluation

### **New Neuro Perfusion Maps**

- Updated workflow integration
- Enhanced Neuro maps
- TMax, Hypoperfusion, and Mismatch results

### **MR Cardiac**

- Volumetric analysis of ejection fraction
- LV/RV inner and outer contour detection
- T1 Mapping, T2/T2\* Mapping†
- AHA17-segment-model
- MR flow analysis
- MR cardiac perfusion

### **Rib Labeling**

- Rib Labeling
- Centerline generation
- Fishbone image display
- Efficient fracture detection and evaluation

### **TAVR Workflow**

- Aortic root segmentation and orientation
- Centerline pre-processing and extractions
- User-definable planning template
- Report output
- Automatic Measurement Protocols

MR Body provides an extensive range of clinical and workflow tools for Radiologists, Internists, and Organ Specialists who utilize 2D, 3D and 4D MR image sequences. This package allows for a comprehensive yet streamlined patient analysis of anatomy and function including evaluating MRA vessel analysis with a familiar centerline and editing tool. It also provides the ability to analyze dynamic data to support the time-dependent behavior of the image intensity or density of anatomy. Radiologists can measure organ volume or regions of interest with intensity value output and utilize exportable measurement values for follow-up comparison. To support uptake curves, multiphase analysis, and tROI (time-intensity region of interest) measurement, graphical and parametric mapping displays are also provided.

Discover the latest advancements in neuro-imaging with TeraRecon's New Neuro Perfusion Maps. This innovative solution offers an updated workflow and enhanced neuro maps for improved diagnostic accuracy and efficiency. Featuring advanced parameters such as TMax, Hypoperfusion, and Mismatch results, our Neuro Perfusion Maps deliver valuable insights into cerebral blood flow dynamics.

The Intuition Cardiac MR package evaluates the anatomy and physiology of the heart chamber and valves, the size and flow of blood through vessels, and the surrounding structures. It is used to determine whether a patient suffers from cardiovascular diseases such as limited cardiac or valvular-related functional outputs.

Streamline rib fracture detection and evaluation with TeraRecon's Rib Labeling solution. Our advanced technology generates centerlines for each rib and presents them in an intuitive fishbone image display, allowing medical professionals to quickly and easily identify fractures and assess rib integrity.

The Intuition guided workflow for TAVR aids clinicians in evaluating the aortic annulus and peripheral vascular system. Utilizing AquariusAPS pre-processing power, the aorta and vessels are labeled and segmented for optimal efficiency. Measurement protocols guide the customer through required measurement steps through the multi-series process providing all the right measurement tools (vessel diameters, perimeter, area, distance, c-arm angles, curvature, tortuosity and more) at the right time. Key results and images are outputted to the defined DICOM destination.

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### TMVR (Mitral Valve) Workflow\*

- Guided TMVR workflow
- Optimized cardiac orientations for the mitral valve
- 2, 3, and 4 chamber view as well as oblique mitral valve view
- Key measurements include trigon-to-trigon distance
- (TT), septal-to-lateral (SL) distance, intercommissural (IC) distance measurements
- Saddle-shape or D-shape options
- Aortomitral angle measurement
- Embedded geometry with percent or mm offset
- Automatic Neo-LVOT centerline and measurements
- Summary page displays key results and images

### Volumetric Navigation

- For 2D, 3D and 4D viewing
- Anatomy segmentation and volume analysis
- Configurable workflow creation
- Comprehensive and robust measurement tools
- Image batching and report generation
- · Comparison views for follow-up patient review

TMVR provides tools for evaluation of the mitral valve and to provide measurements to aid the trained clinical user for TMVR treatment planning. The workflow includes optimized layouts and image reconstructions helpful in annulus evaluation. This includes optimal projections (2, 3, 4 chamber views), templates, as well as concise and user-directed steps and measurements. These measurements and steps all culminate to the treatment planning for TMVR (replacement of native valve) and TMVR (repair of native valve) utilizing embedded geometry matching approved and cleared devices.

Volumetric Navigation provides all of the most fundamental image processing tools in a single workflow. 2D, 3D and 4D image display with MIP, MinIP, MPR, Thick MPR, and 3D rendering with flexible and comprehensive arrangements of tools, processors, templates, batch options and more. All results and key images may be sent to reports and exported to the preferred DICOM destination.

0% of the case is done before we go into the operating room and that's because we have the ability of Intuition to plan ahead." "The most important thing that sets TeraRecon apart is the ease of use. It all comes down to the interface. Many of the software solutions for 3D post processing have comparable engines working beneath the surface for segmentation for ray- casting, but it is really the interface that makes or breaks any particular client."

DR. JAMES F. MCKINSEY, M.D

MT. SINAI HOSPITAL | NEW YORK - NEW YORK

ASSOCIATE PROFESSOR OF RADIOLOGY AND CARDIOLOGY AT THE UNIVERSITY OF KENTUCKY



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# INTUITION + EUREKA AI



### Leveraging the Power of Eureka AI

Through the power of a true open AI ecosystem, Eureka AI allows health systems to augment their current work with AI. Effortlessly turn on, try and incorporate the widest range of impressive ready-to-run AI content into your clinical practices. For academic medial centers, Intuition and Eureka work together to provide an in-house AI capability that allows internally-developed AI technology to be productized and operationalized in days.

As your partner on this AI journey, TeraRecon is already working to build upon its impressive, patented AI technology to increase the value of your institution's Real World Data. Our platforms connect images and information to prepare real-time clinical insights in ways never before possible.

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All offerings are subject to availability and regulatory clearance, which may vary by country. Please verify product statues with your local TeraRecon representative.

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Eureka Clinical AI, as mentioned above, references TeraRecon's separate medical devices (Eureka AI Results Explorer and Eureka AI Interoperability Platform) working together as a system. The above mentioned medical devices are cleared for distribution in the United States