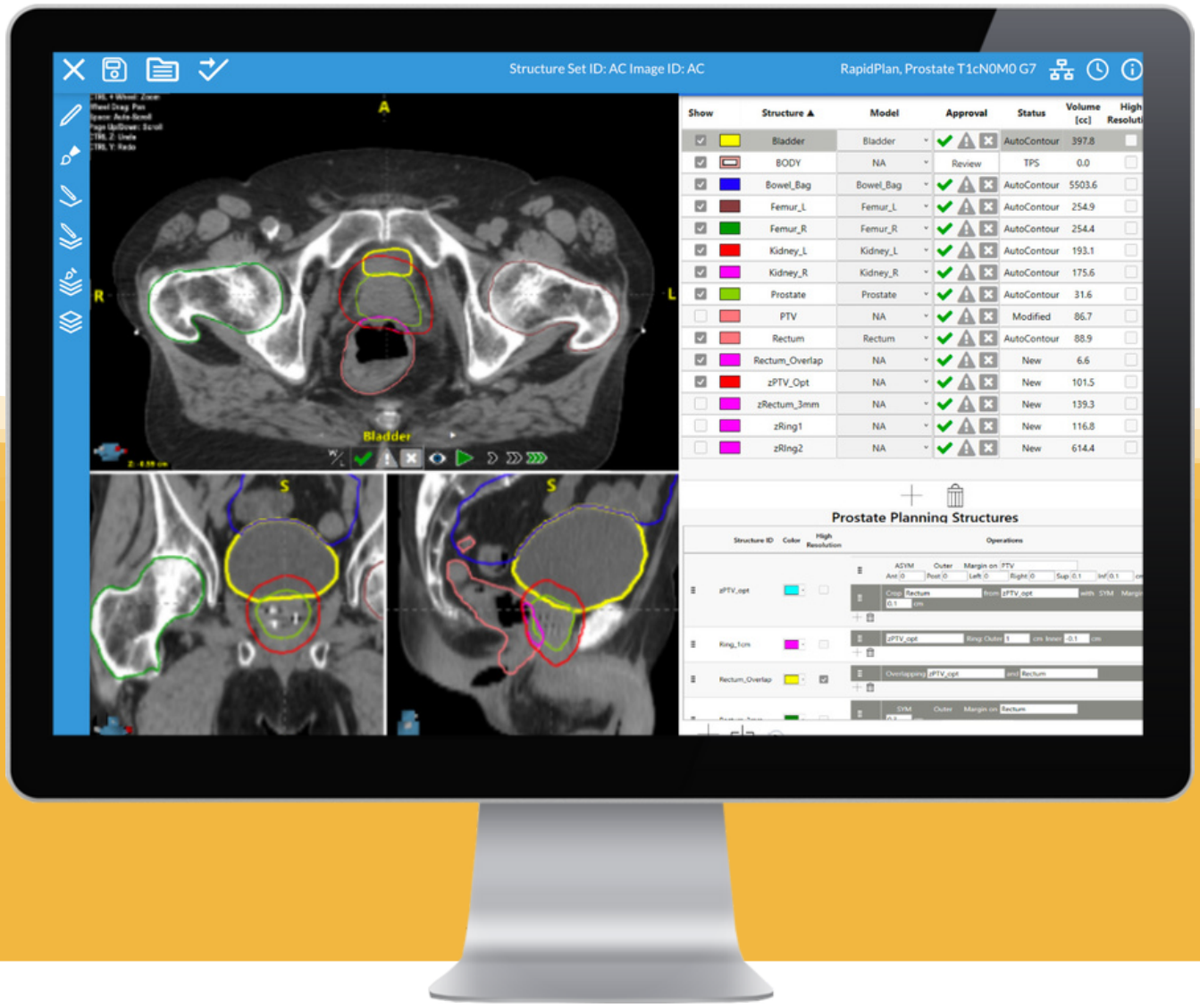
AutoContour

AUTOMATED AI CONTOURING SOFTWARE



Intelligent Automation in Radiation Oncology

RAD formation

Automated contouring in seconds.

AutoContour delivers fast, AI-driven, deep-learning contouring tools to your clinical workflow. The software automatically contours over 60 of the most common structures in just seconds while also generating any necessary planning volumes (expansions, booleans, crops, ring structures) to jumpstart the planning process.

AutoContour works with multiple treatment planning system vendors and provides a unique integration with Eclipse™ and ClearCheck for streamlined contour generation and review.

For clinicians. By clinicians.

Harnessing the power of artificial intelligence, AutoContour was developed by clinicians to accelerate the treatment planning process via faster contouring.

As reported by RO-ILS and AAPM TG-100, contour errors are relatively common and potentially dangerous. By automating the process, AutoContour increases safety and creates a new level of standardization among treatment planners for consistent, high-quality structures.

Create clinic-ready contours in seconds to streamline the treatment planning workflow.

AutoContour

Instant contours and planning structures, every time.

Standardized Contours

Time Savings

Eclipse/ClearCheck Integration

Intuitive Structure Review

Effortless Planning Structures

Over 60 Deep Learning Models

Install Software, Begin Contouring.

AutoContour comes with over 60 ready-to-go structure models (with more on the way), from head to femur, ensuring rapid implementation for treatment planning-ready contours in minutes. With no user configuration required, faster contours are just a click away.

Chest & Abdomen

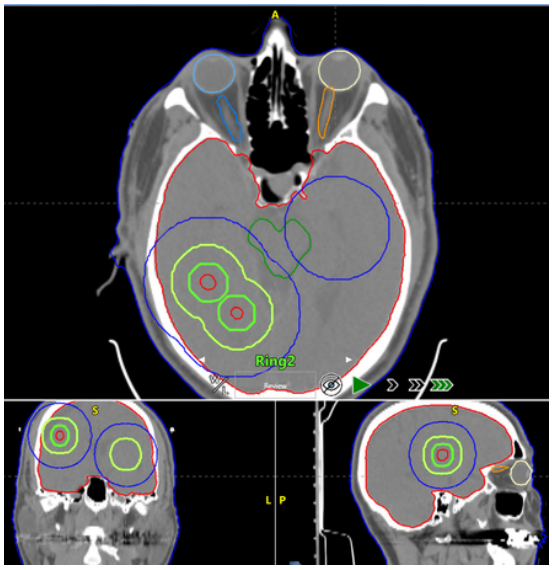
- Aorta
- Bowel Bag
- Brachial Plexus (L/R)
- Bronchus
- Carina
- Esophagus
- Heart
- Kidney (L/R)
- Liver
- Lung (L/R)
- Spinal Canal
- Spinal Cord
- Stomach
- Superior Vena Cava
- Trachea
- Breast (L/R)
- Axillary I, II, III Nodes (L/R)
- Supraclavicular Nodes (L/R)
- IMN Nodes (L/R)

Head & Neck

- Brain
- Brainstem
- Cochlea (L/R)
- Ear Internal (L/R)
- Eye (L/R)
- Lacrimal (L/R)
- Larynx
- Lens (L/R)
- Mandible
- Optic Chiasm
- Optic Nerve (L/R)
- Oral Cavity
- Parotid (L/R)
- Spinal Canal
- Spinal Cord
- Submandibular (L/R)
- Thyroid

Pelvis

- Bladder
- Bowel Bag
- Cauda Equina
- Femur (L/R)
- Femur_RTOG (L/R)
- Pelvic Lymph Nodes
- Penile Bulb
- Prostate
- Rectum
- Seminal Vesicles

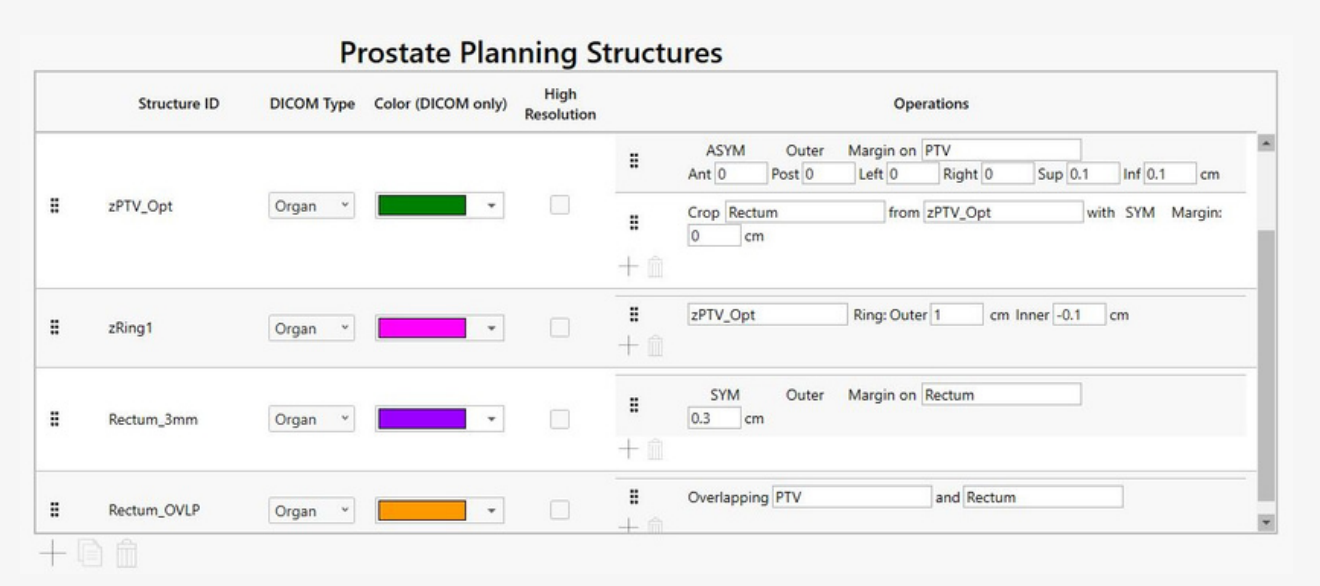


Improved Planning Structure Generation

In addition to automatic OAR contour generation, planning/optimization structures can be created using single or multi-step boolean and geometric operations. Configure these functions and generate additional planning structures from existing contours in one click. Planning structure preferences can be saved to AutoContour templates for continued time savings and convenience.

Generate the following with AutoContour:

✓ Margins (PTV, PRV) ✓ Rings (Skin, D_2cm) ✓ Overlap ✓ Combine (Lungs) ✓ Crop (PTV_EVAL)



Streamlined Editing and Review

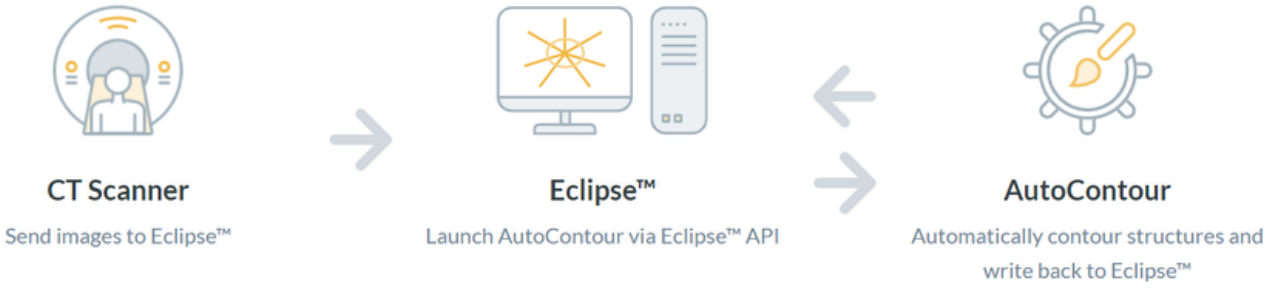
Contour review is critical. AutoContour provides the tools to make contour verification efficient and simple. With a single click, Autocontour scrolls automatically through structure slices—adjusting CT viewing planes, zoom, and window/level as appropriate for each contour—to quickly identify any deficiencies.

Any edits can be made within the software, with familiar pencil and brush tools and multi-slice interpolation.

Automated Contours For Any Workflow

Regardless of the workflow, AutoContour supports efficient contouring and is adaptable to multiple environments and vendors. For Eclipse users, AutoContour is integrated for read/write capability, accessible via the API. For other treatment planning system vendors, a simple DICOM file import/export is all that is required to access top-quality contours.

Eclipse™ Workflow



DICOM Workflow

Upgrade Your Clinic With Efficient, High Quality Contours From AutoContour

- ✓ Consistent, clinic-ready contours for all anatomical sites
- ✓ Vendor neutral platform adaptable to any workflow
- ✓ Automated planning and optimization structures
- ✓ Built-in review and editing tools

> "AutoContour's tight integration within the Varian Eclipse planning system eliminates the need to import and export DICOM data sets and supports an efficient workflow."

> "I really appreciate the built-in editing and QA features, ensuring no generated contour is returned to Eclipse without user review."

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