Mirada RTx

Deformable Image Registration tools for RT planning and monitoring
"Multi-modality deformable registration is important to us as is CT-CT registration for dose warping; we thoroughly evaluated all the DIR options before purchasing Mirada."

John Fan, PhD
Edward Cancer Center
Naperville, IL

Why Mirada

We understand your clinical challenges. With decades of combined industry experience, our team of experts is dedicated to providing a suite of innovative software solutions to increase clinical confidence and efficiency.

Originally spun out from the University of Oxford over a decade ago, Mirada software is used in leading luminary hospitals and cancer centers worldwide.

Vendor neutral

Mirada software works seamlessly with any treatment planning system, scanner vendor or PACS.
Increasing clinical confidence and efficiency

**MULTI-MODAL DEFORMABLE FUSION**
Mirada’s accurate deformable fusion allows you to incorporate any combination of CT, PET, PET/CT, MRI, CT Angiography and CBCT, including 4D data sets, into the planning process. Unique Dynamic Contour Transformation technology allows you to define and edit contours in any modality, any view, or by using all sequences from an MRI acquisition. Fused image sets or warped contours may be exported directly to your treatment planning system.

**MULTI-ATLAS CONTOURING**
Single-click automated contouring using an atlas or previously contoured case brings the advantage of time savings and increased consistency. Within seconds, Mirada RTx provides an initial set of contours that can be reviewed and refined as required prior to exporting to the treatment planning system. Mirada RTx also provides a comprehensive set of manual and semi-automated contouring tools allowing you to complete the whole workflow in one place.

**DOSE DEFORMATION AND SUMMATION**
Reduce the uncertainty around re-treatment decisions by using the Mirada RTx dose deformation feature to align previous dose volumes to the current planning CT. Utilizing accurate deformable registration between the previous and current planning CTs, the dose deformation feature can account for variations in positioning or weight-loss. Dose summation extends this capability to produce cumulative doses over multiple planning volumes.

**ADAPTIVE RE-PLANNING**
Mirada RTx provides tools to help you assess the need for adaptation and, if necessary, rapidly warp the previous structures to the new planning volume. Load and display all of the image data collected during treatment to assess changes. Images are automatically aligned to facilitate easy review and analysis. Built-in response assessment tracking provides quantified analysis to support response based adaptation and research protocols. A single-click adaptation of existing structures to the new planning volume prior to exporting to the treatment planning system completes the workflow.

“Achieving highly accurate deformable image registration for all patients and modalities was a top priority. Mirada software fits seamlessly into our normal workflow and enables accurate registration, including for MRI and, critically, from on-board cone beam CT. Improved accuracy allows more precise contouring of disease, and dose delivery while minimising exposure to normal tissue.”

*Professor Johannes Langendijk, M.D*
*University Medical Centre Groningen*
*Netherlands*
Meeting your needs

“I want a software package that can efficiently handle imaging data, contours and dosimetry in a vendor independent manner”
Mirada RTx is vendor neutral and it integrates with your existing treatment planning system allowing seamless exchange of images, structure sets and dosimetry.

“I want dose summation tools that allow the addition of radiation doses given at different times and by different treatment modalities.”
With Mirada RTx you can use deformable registration between the previous and current planning CTs & the dose warping feature to account for variations in positioning or weight-loss. Dose summation extends this capability to produce composite doses over multiple planning volumes.

“I want to accurately assess the total dose delivered to vital normal structures such as the brainstem, spinal cord and other radiosensitive structures”
Mirada’s validated deformable fusion powers the deformation of dose with a single-click for accurate composites of previously delivered dose.

Service
We offer a dedicated telephone support line, an online ticketing portal as well as an email option to keep you in touch with our support staff. Our team of experienced clinical and technical specialists work together to ensure a swift resolution to any inquiry.

Training
We appreciate how important good training is in enabling you to make the most of your investment. Mirada’s team of experienced training staff is available for on-site or remote training. Our team will tailor a training package to suit your institution’s needs and ensure all staff members are trained efficiently.

About Mirada Medical
Mirada Medical is a leading international brand in medical imaging. The company develops advanced software applications which help healthcare professionals use medical images more effectively and efficiently to improve cancer care. Mirada’s products are used across diagnostic radiology, molecular imaging, radiation oncology, medical oncology, tumor board and elsewhere. Mirada specializes in simplifying technically complex image processing tasks, allowing clinicians to more confidently diagnose disease, assess response to treatment and plan radiation therapy or surgical intervention.

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